

## Annotated Bibliography on

# VITAL and HEALTH STATISTICS

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
Public Hoolth Service
HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION
National Center for Health Stotistics
Manuary 1970.

#### Acknowledgments

The contents of his Annotated Bhilography on Vula and Health Statistic, 1965-1967, have been searched and prepared through the efforts of several members of the suiff of the Office of Health Statistic Analysis, National Cratter for Bellath Statistics. Do. Cline 12. Commels, them Deputy Director, instined the retrieval search at the National Library of Mickines which has provided essential or coefficient several control of the Commels of the Commens of the Commels of the Commens of the Commels of the Commels of the Commens of

Appreciation for their contribution in the preparation of this Bibliography is also extended to the following persons:

#### National Library of Medicine

Gertrude Fox Charlotte Kenton Evelyn Krueger Catherine Orner Joy Stiller George Washington University, Biological Sciences Communication Project

> Elizabeth Hedges Dorothy Lewis

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# ANNOTATED BIBLIOGRAPHY VITAL AND HEALTH STATISTICS 1965-1967

#### INTRODUCTION

This bibliography is intended for resembers, feetily, tubents, and offerine in the field of visit and health students, and offerine in the field of visit and health students in other fleetin may also with the existence of relevant iterature through brief descriptions of the salected cliatone. Articles from yoursal and practical intend in face through December, to the two salected years, James y, 1966 through December, to the two salected years, James y, 1966 through December, to the property of the proper

#### 1. Selection procedure

The primary source of the selections was monthly task of valid and heads statistical formers destined from the Notional Library of Medicine (NLM). The Notional Library of Medicine (NLM) The Analysis and Retrived System), a compared sound superior to the proper lenker Medicine seed other indicase, may be a superior of the Notional System of th

This bibliography is the product of three distinct stages of search and selection: (1) a printout of vital and health statistics citations from the MEDLARS files for the specified time period, (2) a preliminary selection of relevant citations from the printout to be abstracted, and (3) a final selection of articles deemed relevant by the information provided in the abstracts.

For the first stage, about 200 MeSH terms were used to formulate a search strategy for obtaining certain articles unconditionally and other articles only under specified conditions. Articles explicitly dealing with non-human phenomena were excluded by the use of "suppression" terms. Some of the terms used in the formulation are given in Table 1. Terms in column 1 indicate that the subject heading is the main aspect of the article, and the formulation specifies that if any one of those teams is assigned, the article should be retrieved (unconditional). Terms in columns 2 and 3 indicate that the subject heading is a major or minor aspect of the article, and the formulation specifies that if at least one term from column 2 (substantive terms) and at least one term from column 3 (statistical terms) are assigned, the article should be retrieved (conditional). For example, if "malignant nooplestne" (substantive) was assigned, the article would be included in the printout only if a term such as "mortality" or "occurrence" or "see factors" etc. (statistical) were also assigned.

Pations received from NLM were circulated among a staff of the Office of Health Statistics. Analysis in the National Center for Health Statistics. Analysis in the National Center for Health Statistics for selection of incitions to be abstracted. Table 2 gives the principal criteria for choosing citations. At this second stage, the only bases for determining whether a citation met the criteria were the tills and the list of MoSII torms stagged to it. All statecta atticked were sent for abstracting to a liberain at the Biological Sciences Commissional Project at The George Wandington University of the Commission Designation of the Commission of the Commi

Wherever possible, the author's abstract or summary was used. In cases of foreign language journals without English summaries, no attempt was made to translate. The major guidelines in preparing substracts were include the type of article (e.g., discussion, review), the presence of data, the time, place and population referee, and highlights of the findings as briefly as feasible.

The third and final stage of selection involved review of the completed abstracts by the staff of the Office of Health Statistics Analysis. At this stage, the reviewer had more mornwation about the article and was, therefore, in a better position to determine if it met the

criters for inclusion given in Table 2.

All Public Health Service Publication 1000 series reports, Vital and Health Seartites, published by the National Center for Health Statistics were reviewed independently of the MEDLARS search, Some which were not retrieved by the search formulation have been

#### 2. Evaluation of selection procedure

included.

The time and effort necessary in the first stage for scanning external last, behanced against the number of articles found to be relevant, determined to a large extent the coverage provided by this bibliography, is such as pertinent to vital and health statistics were to be exteriored, the unwerse would be substantially reliared

but the ultimate number of selections of particular relevance to this bibliography would not increase proportionately. The discrepancy between the number of initial retrievals and the number of ultimate selections raises primarily because the MeSH terms are used to index articles for a wide variety of purposes and are not necessarily geared to the needs of this bibliography. In particular, the emphasis here is on statistical treatment of bibliography. In

of biomodesic lets. To estimate the amount of coverage provided by the retirevel strategy used larer, a lunted means a seed of quanty tested gournal, the American Journal of Public Health, the Journal of Chronic Diseaser, and Public Health, the Journal of Chronic Diseaser, and Public Health Reports, were surveyed for the lately Medican Health Reports, were surveyed for the lately Medican per constantly August, 1966 to August, 1967 a About approximately August, 1966 to August, 1967 a About which is the state of the MEDLAGS piritous manual sweeth appeared in the MEDLAGS piritous manual sweeth appeared in the MEDLAGS piritous manual sweeth appeared in the MEDLAGS piritous manual part entirest alterage Test this bidders pirit Time and the state of the MEDLAGS piritous manual part entirest alterage Test this bidders pirit Time and the state of the MEDLAGS piritous manual part entirest alterage the this bidders pirit Time and the state of the MEDLAGS piritous the state of the MEDLAGS piritous and the state of the MEDLAGS piritous the state of the MEDLAGS piritous and the state of the state

Table 1. Example of Search Formulation Terms

Terms yielding Unconditional Retrieval <sup>1</sup> (1)	Terms yielding Conditional Retrieval <sup>2</sup>		
	Substantive (2)	Statistical (3)	
Birth Certificates	Arterioscierosis	Age Factors	
Birth Rate	Arthritis	Educational Status	
Death Certificates	Bronchitis ·	Ethnic Groups	
Demography	Cardiovescular Diseases	Follow-up Studies	
Epidemiology	Carebrovascular Disorders	Health Surveys	
Fertility	Diabetes Mellitus	Íncome	
Morbidity	Hypertension	Occupations	
Mortelity	Influenza	Prospective Studies	
Vital Statistics	Kidney Diseases	Retrospective Studies	
nfant Mortslity	Neoplasms	Sampling Studies	
Fetal Death	Respiratory Distress Syndrome	Sex Factors	
	Rheumetism	Statistics	
	Syphilis	Occurrence	
	Demography	Mortality	
	Morbidity		
	Epidemiology		

Major espect of article.

Major or minor espect of article.

well vary among all the other journals included in the hibliography. A more detailed evaluation of MEDLARS,1 not related to this bibliography and covering a wide variety of subjects, resulted in an average returned rate of relevant laterature of a lattle less than 60 percent.

#### 3. Contents

The bubble graphy is divided into 5 major subjects and 11 millor categories. Abstracts appear under only one subject and are numbered in the order in which they appear. Some are cross-referenced to other subjects, where the same number, author(s) and title are reproduced without the abstract. These out-of-order numbers que the reader to the location of the abstract.

An alphabetical index of authors is given at the end of the hibbography. In accordance with Index Medicus practice not more than three authors per article are listed in the index and in the bibliography.

#### Table 2 Criteria for Inclusion and Evolution

- Incidence of mortality or incidence or prevalence of morbidity for large geographic areas (e.g. major cities	- Case, clinical, or laboratory studies.	
of the world, states of the U.S., countries) except data collected on a routine basis (e.g., monthly,	- Local health studies or statistics not meeting the	
annually, etc.)	B 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

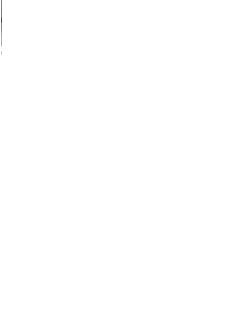
... Same as above on a local level if the methods used or the results obtained are of general interest.

Inclusion

- ... Epidemiological studies or sample surveys of defined populations
- Data collection methods, study designs, analytic and evaluative techniques as applied to vital and health statistics.
- Demographic studies including fertility, man lage, and divorce for large geographic greas except data collected on a routine basis: or for local areas if the methods used or the results obtained are of general interest.
- Natural history of diseases which are major public health moblems.
- Factors (environmental or genetic) influencing the occurrence of disease.

- Exclusion the
- major health problem in the United States.
- General statistical theory.
- Routine statistical reports
- Non-human studies of disease.
- Health service programs or evaluations.
- Studies of disease mevention, prognosis or treatment. - Editorials commenting on studies published separately.
- Confesence reports unless data are given which me not available clsewhere.
- Health education, health manpower, or medical care utilization.
- Nonstatistical discussions of disease problems for which data are available elsewhere.

<sup>1</sup> Lancaster, F. W. Evaluating the performance of a large computenzed information system, LIMA 207 114-120, Jan 1969.



#### (AA) = Author's abstract

Symbols (AEd) = Author's abstract; edited by librarian or editor (Ed) = Labrarian's or editor's abstract

1 ANONYMOUS Blindness: prevalence and longevity.

Status Bull Metrop Life Innur Co 47 6-7, Aug 66.

In 1960, it was estimated that 2.1 per 1,000 U.S. population were either totally blind or impaired mough in vision to provent normal activities. Studies show a higher prevalence of blindness among Negroes and American Indians, probably because of economic conditions. The major causes of blindness are thought to be prenatal in erigin, diabetes, accidents, and vascular diseases. Longevity among the blind is somewhat below that of the general population. 2 tables. (Ed)

864. ANONYMOUS

Epidemiological methods in the study of chronic discases. Eleventh report of the WHO Expert Committee on Health Statistics. WHO Techn Ren Ser 365:1-31, 67.

2. ANONYMOUS.

Further reductions in disability in 1966. Statist Bull Metrop Life Inner Co 48:10-2, Mar 67.

The incidence of disability, lasting more than 8 days, has decreased among the employees of the Metropolitan Life. Insurance Communy covered by the Communy's eroun insurance program, from 133 per 1,000 in 1965, to 127 in 1966. Women aged 25-44 showed twice the disability of men. Respiratory system diseases led as exuses of disability. Then in the following order: disorders of the circulatory system including beart disease, accidental Injuries, diseases of digestive, and of genitourinary systents. This last 3 were fower than the number for resourcetory diseases. Detailed tables by sex, age, and discesses are given, Tables, (Fd)

3. ANONYMOUS. Some contrasts in inorbidity distribution. J Coll Gen Pract 11:74-83, Jan 66.

Excessive mineralization of the water of the Tamar River in England and correspondingly high levels in fruits and vegetables grown in the region are suspected of contributing to canogr morbidity. To test this hypothesis, 12 practitioners in the Tamer Valley (Devon and Cornwall) and 7 members of the Davelopment Group of Practitioners (outside the Valley) recorded all episodes of illness soon in their practices during a year. Age and sex-specific rates were high for the Terrar Valley group for cases of neoplasm, diabetes, and diseases of the contral nervous system, the cardiovascular system, urinary system, liver, gallbladder and paneress. Rates were higher outside the Valley for respiratory diseases, skin diseases, diseases of ear and mustoid, book pain, seletics, humbren and menonausal symptoms, Environmental differences and artifacts of reporting may have influenced the rates. I table. 4 references. Appendix. (Ed)

ANONYMOUS The problem of arthritis. Statut Bull Metron Life Inner Co 48:7-9. Feb 67.

12.668.000 persons in the U.S. suffer from some form of arthritis (not including persons in institutions). The esti-

mated providence of arthrity in broad age groups by age and sex are shown. The rate for women is 80% higher than for mon, the rate for nonwhites is lower than for whites, 3,600,000 persons ages 18-74 have arthritis, and this opens more frequently in low income families, who are also less likely to sook modical help. Incidence of arthritic diseases in employees of the Metropolitan Lafe Insurance Company is given. Arthritis is of minor importance as a cause of death, 1.1 per 100,000 populationner year. 2 tables. 1 chart. (Fd)

5. ABBASI, A. S., HASHMI, J. A., ROBINSON, R. D., JR. Provalence of Beart disease in school children of Karnehi. Amer J Cardiol 18:544-7. Oct 66.

2,661 boys and 1,341 girls ages 8-14 were examined in Karachi, Pakistan, to assess the prevalence rate of rheumatic and congenital licart disease. By well accepted criteria, 3.5 per 1,000 were found to have heart discusse, 1.8 each for congenital and rheumatic heart diseaso, Throat cultures positive for homolytic streptorei were found in 4.2%. Rhousantic fover and rheamatic logart discuses are essentially as common in Pakistan as in temperate and affluent nations. Comparative provalence of heart disease in school populations of various countries is given. 2 tables. 27 references. (AEd).

6. ACHESON, R. M. The opidualology of soute rhousaste fever 1950-1964. J Chronic Dat 18:723-34, Aug 65.

There has been a stendy fall in the death rate from thoumatte fover und rheumstie heart disease, both sexes, all metal groups, U.S., 1950-1964. Morbidity, although the data are poor, is believed to have decreased also. Acute rhoussatic fever follows in 3% of patients with streptecoecal illness, suggesting that differences in the host may contribute to the parliceenesss of the disease. Blood group O is loss likely to develop rheumatic carditis. Sexes see equally susceptible to seute rhousantic fover but females are more susceptible than amies to Sydenham's chorea (especially in England and Wales). The disease occurs more often before the age of S and decreeous after patiently. Towns have more cases than do niral areas: large families more than small. Bud housing and poor nutrition are contributing causes. Remons for the changing epidemiological features may include such factors as increase in average pay, modern housing, clean milk, and avallability of antibioties. 1 table. 5 figures. 43 references. (AEd)

7. ADLER, E., ABRAMSON, J. H., ELKAN, Z. Rheumateid arthritis in a Jerusalem population. I. Epidamiology of the disease. Amer J Epstem 85:365-77, May 67.

Prevalence of riscomatoid arthritis was studied in a neighborhood of Jeruselom, Israel, by examining a population sample Diagnostic entern of the American Rheimstime Association were used The rate of peobable and definise theumstood architects with 25 among womens aged 30 and older and 0.55; among most. Persistence is women was higher among limitigumts of European origin than of North African or Asson origin. No significant relationty of the control of the control of the control of the exposure to potentially steadful situations, or office valiables. 7 while 41 references. (AGI)

#### ADLER, E., ABRAMSON, J. II., GOLDBERG, R. Rheumstoid arthritis in a Jerusaless population. II. Epodemiology of farurasioid factors. Amer J. Enislay 85 217836. May 67.

heredogic test for fectuation factors in a single naneglibendecid of Fectualisis, Isaich, A summe againnation steep (IEAT) and letts fusion test (IET) were for perfectly and interest fusion test (IET) were of perfect IET. For fecture IET reasons were more common among older persons but there were not common among older persons but their were and outcome. The summer of IEET are related to purdefection, and the summer of IEET was 12%. North Armon 1995. The sensitative of IEET was 12%. North Armon to be a drop in fetter on re-transmission 6-9 month is give the late of the IEET and IEET and IEET and IEET and The war now norther among tensor of Affairs on-

## AITKEN-SWAN, J., BAIRD, D. Cancer of the uterine corvex Aberdoonshire. Epidemic-logical innects.

Brit J Concer 20:624-41, Dec 66. It is now generally accepted that cancer of the cerus, is predominantly a disease of perous nurrent women of middle age, particularly those who marry before age 20, who have large families, who bave had more than one marriage partner, and who are week of men in lower toolooconomic groups. In any year, in Aberdeenshine an average of 4 in 10,000 over-married women aged 25 and over, and I in 10,000 ungle women can be expected to attend a hospital for the first time with cancer of the cervix. Rates are higher at the city than in the county of Aberdeen, in wishowed and divorced women, and in lower socioeconomic groups. However, there is no significant excess of nationts surriving under 20 years of on-Patients with 4 or more children had more cervical cancer than the general population, those with 7 or more children showed 3 times as much cervical cancer &

### tables. 2 figures. 14 references. (AEd) 0. AlZAWA, T., TOTO, Y., ARAKI, G.

AlZAWA, T., TOTO, Y., ARAKI, G.
Epstemiological survey of corolard apoplexy
Switter April 20:2812-8, Oct 65. (JAP) No English sum-

#### ALDERMAN, A. J. Acute conditions, incidence and associated disability, U.S., July 1964-June 1965. Fital and Health Statistics Survey 10, No. 26, Doc 65.

Statistics from the Health Interview Survey on the incidence of seate illustrass and injunes and associated disability experienced by the children, nonastitutional population of the U.S. duming the year 1964-65 distributed by condition groups and selected demographic characteristics. An average of about 2.1 neuté condulton per terron and about 8.3 days of associated destricted.

netrrity were estimated. Approximately half of these conditions were distributed as responsively. The middened of common coloris increased from the preceding year, mainly during the January-Sharch quarter. The rate of common childhood distrates, however, declined from an estimated 13.3 cases per presses in the preceding year to 8.7, 33 tables. (AEd)

#### ALDERSON, M. R. Data on suckness absence in some recent publications of the Ministry of Pensions and National Insurance.

Bru J Pres Soc Med 21:1-6, Jan 67. An evaluation of the special "Report on the Inquiry intothe Incidence of Incapacity for Work, II The Incidence of Incaracity for Work in Different Areas and Occupations." The aim of the report, covering England, Wales, and Scotland for the years 1958-61, is to provide a nicture of extent and distribution of the problem to us. to identify occupations and local areas that might warrant further adontification. The data refer to the records for a 5% sample of persons insured-620,457 men were meladed. Both inception rate and average days of incapacity for "all causes" of morbidity and specific causes showed a marked inverse relationship to degree of skill required by an occupation. The data are also analyzed by air pollution levels. Problems of the data, including accuracy of diagnoses, are discussed. 4 tables, 10 references, (Ed)

#### 13 ALPERT, J. J., KOSA, J., HAGGERTY, R. J. A month of illness and health care among low income families.

families Pub Health R en 82 705, Aux 67.

During a summer period, when a sample of 7s inthus framities of low secone kept family halful calculatur, for massis, caused interruptions in family help of every 3 days, Persons receive mixing care to comply to fevery 3 days, Persons receive mixing care to comply to fevery a many were probably aff unreceived or not oven received. The contended appetral for sedical attention A received. The contended appetral for sedical attention is a many contended to the contended appetral for contended appetral for the contended appetral for

#### ALTER, M., LEIBOWITZ, U., SPEER, J. Risk of multiple velcross related to age at immigration to Israel.

Arch Neural 15:234-7, Sep 66. Multiple sciences (MS) occurs more often an temperate zones and relatively surely near the counter. If environment affects the frequency of MS, then migration from one zone to another should affect the risk. Also, if retchanges with augration at a particular age, it supports that the disease was acquired before that see. A nationwide survey of MS completed in 1961 identified 282 nationts alive in Israel, Provalence varied by immigration oristin. Europeans had 6 to 10 times higher rates than Afro-Assans, native-born Israelis rescurbled Afro-Assans so prevalence, Incidence increased if ammogration from Europe occurred after age 15, suggesting that MS is acquired many years before symptoms develop, probably in early childhood before age 15. Tables 10 references. (Ed)

15 ANDERSON, D. O., LARSEN, A. A. The meadence of illness among young children in two communities of different air quality: A pilor study. Crood Med Asy 195 893-904, 29 Oct 66

For Jan. 1-1-lant 24, 1955, every abstance for each grade one pupil as the public school system of 3 Buttist. Columbia toward vagin or 63 Buttist. Columbia toward vagin mensingsical by an neitrowe with the pupiest. This play of the sign of the pupils of

 BAHN, A. K., GARDNER, E. A., ALLTOP, L. Admiredon and prevalence rates for psychiatric facilities in four register areas. Amer. J Public Health 56:2.033-51, Dec 66.

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- BAKER, T. D.
   Problems at measuring the influence of economic levels
   of morbality.
   Awar J. Public Health 56:499-507. Mar 66.
- BARTON, D. E., DAVID, F. N., MERRINGTON, M. A criterion for testing contagion in time and space. Ann Hum Grart 29:97-102, Aug 65.
  - BAUER, M. L. Characteristics of persons with diabetes, U.S., July 1964-June 1965.
     Vitel and Health Statistics. Series 10, No. 40, Aug 67.

Statistics on prevalence of disbets from the Boalth Invited Survey by sociotecensories chraneteristics of the disbets population, and their health status in terms of consider of droose conditions, disbutility days, and timispect of the consideration of the U.S. was reported to be disbetic. Properties of the U.S. was reported to be disbetic. Properties of the U.S. was reported to be disbetic. Probables in cases of with ago. The majority of disbetic fewalesce increased with ago. The majority of disbetic fewales in least 1 other dironle conditions, and the rates of disbetic Policy of the Conditions were complyed 3 times these of the Conditions were complyed 3 times the flower of the Condition were complyed 3 times the flower of the Condition were complyed 3 times the flower of the Condition were complyed 3 times the flower of the Condition were complyed 3 times the flower of the Condition were complyed 3 times the flower of the Condition were complyed 3 times the flower of the Condition were complyed 4 times the flower of the Condition were complyed as the condition of the

BAUER, M. L.
Current estimates from the field to interneer survey, U.S.,
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Providenal Statistics on, incidence of soute illnesses and

Provisional statistics on instalence of scarce illustrees and aspures and associated disability thys; percent of the ordinan, nonmentational populations with one or more etimole controllers, members of the ordinance of the ordi

 BECHELLI, L., MARTINEZ DOMINGUEN, V., PATWARY, K. M. Willo egoletmielogic random sample surveys of leprosy in Northern Nigeria (Kassins), Crasseroom, and Thailand (Khon Kassi).

hird Leproty 34:223-43, Jul-Sep 66.
Some opidemological data collected by WillO Leproty
Trans (LAT') in mandom sample surveys in Northern
Nigris, Cameroon, and Thabland are reported and conmarked on. Projection of Appendix Nigris, Transtered on the Control of Projection of Appendix Nigris, Transatic are, to be compared with rates in South America
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20. BICKEL, J., SCHAR, M. Evaluation of the state of licalith of the population. Schwerk Med Psych 96:65-70, 22 Jan 66. (CER)

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Onling to the integration of the collection of

 BLUMENTHAL, M. D. Mental illness in parents of phenylketonume children.

J Prochfor Res 5:59-74. Mar 67. Results are presented of a field study to investigate the hypothesis that persons presumed heterozygous for phenyficetonursa are more volnerable to mental disorder than other persons, 331 persons were interviewed, including 108 parents of phenylketomatic offspring and 102 perents of children with cystic fibrosis. The mental health of pureuts was evaluated by a set of indices constructed by assigning numerical values to responses on a standard interview schedule. The parents of phenylketouric children did not score differently from the other two groups, inducating that they were not more susceptible to mental health problems than the controls, at least as measured by the operational definitions used here. Some of the problems associated with field studies of psychiatric diseases are discussed. 7 tables, I figure, 36 references, (AEd)

22. BOLLO, L. E., GLEESON, G. A. Person: hospitzatic by number of houghtst opicedes and days in a year, U.S., July 1960-line: 1962. "It is also all leafs of houses in 1962. "It is also all leafs of hastness. Some in 10s. 20, Jun 65 Data from the Health Interview Streey show that about 1 in 11 passes had 1 on roce abspirit quoted during an overage year. About 36% had 1 spiceds and 1952. 2 sphoots. The size of member expected with the property of the proper

 BORHANI, N. O., HECHTER, H. H.
 The application of statistical mothods in the analysis of blood pressure distribution curves.
 Ann NY Acad St. 126:758-66, 6 Aug 65.

The Kolmoprov-Smirnor Two Sample Set was used to detect differences in the Trapparty distribution of systokic blood pressure innoug San Francisco longularizane classification of the pressure transic San Francisco longularizane classification of the pressure transic set of the pressure transic set of the pressure transic set of the set of t

 BRANOWITZER, A., CHOINOWSKA, J., FRACZEK, O. Morbidity and sickness rate of the population of Poland in 1960-1964.
 Zdrow PubMezre 51305-15, May 66.

The morbidity rate in Poland, 1960-64, including the method of collecting data and the validity of the statistics is discussed. Differences between morbidity of urban and naral populations and variability existing among different territories are noted. Suggestions are made for further analysis. (AEd)

BROWN, R. C., RITZMANN, L.
 Some factors associated with absence of coronary locate disease in persons agod 65 or older.
 J Amer Gerlet See 15: 238-50, Mar 67.

From June, 1965-March, 1966, at the Veteran's Administration Hospital in Portland, Oregon, 133 nationts, area 65.85 without demonstrable least deease, were studied to determine possible factors accounting for the absence of coronary heart disease in the elderly. Findings were compared with 100 control natients, ages 65-79, known to large coronery heart discase. Data were obtained by personal interviews, physical and psychological examinations, and clinical laboratory tests. Pactors found to be associated with the absence of coronary heart disease in these olderly votesant included moderate eating habits, no family sustary of heart disease, lack of conorm with social status, regular physical exercise, a normal serum total cholesterol level, and absonce of physical manifestation of generalized arterioscierosis, 6 tables, 16 references, Appendix, (AEd)

 BRUSHLINSKAIA, L. A.
 Some aspects of morbidity among various age groups in the urban population. Based on data from the population turnover during 1958-1960.

Gig Sanit 30:33-8, Sep 65.

The structure of morbibility is separate age groups gives an idea of the dominating disease at a definite use. In

young ages, 15-59 years, there is a prevalence of acute diseases that are, to a great extent, decedy connected with the santary, hyperine factors of convocament. In the middle and old age proups, 46-99 and none, the ratio of centre diseases and accidents in the merchality rate falls concedenably but there is a rise in the number of four-tern diseases requiring dispensary suspervision. At the given the contract of the contract

BRUSHLINSKAIA, L. A., MAZUR, M. M.
 On methods of depth investigation of the general morbidity of the population.

 Zabarookhr Ross FED 9:22-4. Sep 65. (RUS)

Zaharookhr Rois FED 9:22-4, Sep 65, (RUS)

BRYANT, E. E., TAUBE, C. A.

Utilization of institutions for the aged and chronwally ill, U.S., April-June 1963. Vital and Harlth Statistics. Series 12, No. 4, Feb. 66 Statistics on number of beds, admissions, discharges, recipients of public assistance, and on the rate of occupancy in instriutions for the aged and chronicelly ill-Based on a survey of nursing homes and related facilities, including chronic disease, geriatric, and mental hospitals, and all types of homes for the aged, 88% of heds were occupied. About half of the residents in institutions for the aged were recipients of public assistance. Of the persons discharged, about 1/3 were because of death. Although over 60% of the 1962 admissions were discharged before the end of the calendar year, average length of stay was 3 years, indicating that many residents stay short as well as long periods of time. 7 tables. (AEd)

 CASSELL, E. J., MCCARROLL, J. R., INGRAM, W. Health and the orbital environment. Air pollution and family sitness: III. Two neutes sir pollution apusodes in New York City: Health of focts. Arch Birston Health (Citago) 10:367-9. Feb 65.
 Symptoms, nuch as chronic cough, nathma, aye irratation.

Symptoms, such as chronic cough, strhms, aye irralation, and districtor, are studied in tenso of the percent of the population reporting these symptoms before, during, and after air pollution exposites. Diffusilizes in satospecially data from this type of study are discussed. 4 figures. (Ed)

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reported respiratory symptoms, absentedsin, and impaired respiratory function are discussed as well as plans to following groups of men to determine the prognostic significance of the findings 6 tables (Ed)

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These groups of the population of Stella, againstitutal workers, industrial workers, and sufficients, again 5.66, users undeed for the presence of coronary disease. There was a statistically supplient and ference between the against and workers and the inclinetuals. The latter group of 14 persons that the Largest number of causes of coronary beart disease, the highest medience of systoles and distable in presentance, the highest medience of systoles and distable in presentance, the highest beauth of largest medience of the contract of t

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Methods amplored in a cancer rate survey in Bodas.

Western Nogens, are described, Insofance of malagnand disease in Boland is misallar to that in the U.S. smill age 50 in subject on the time to U.S. smill age 50 in subject on the time to U.S. smill age 50 in subject and 20 in forusize. Over these eggs, malagnand disease is useful to so common as the Ungerich. Particular in the tidenty in Budien which appears to occur a decade in the tidenty in Budien which appears to occur a decade or two carlier data if does in the U.S. howevild in pupulation. The incidence of four of the most common tamerer in Budien (ferencess of Possus, errivi, liver and sciences) in compared vorts the mediatee in the U.S. white and incomplete perhatitions. 7 tables 2 Top white and incomplete perhatitions.

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Osteoarthritis in neales by selected domographic chameteristics, U.S., 1960-1962 Vital and Health Statestics Somes 11, No. 20, Nov 66 Prevalence of osteoarthints (OA) obtained from the family income objection, mantal status, usual activity

Health Examination Survey for adults, any 18-79, Examagazing of the relationship of the prevalence of OA to status, occupation, and industry. Among the differentials noted were higher than expected OA prevalence for men employed as craftsmen and in the manne and construction industry. 19 tables. (AA)

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> The probability of development of coronary licart discase can now be defined with considerable accordey. The probability of the development of chinesi disease in middle-aged men with various combinations of risk factors in the upper range is somewhere between one and two chances in five within a 10-year period. When such men are compared with others in the lower ranges of those variables, their excessive risk is of the order of threefold to tenfold, depending on the selection of prodisposing factors and the choice of dividing points between "nositive" and "negative" test results. Deserintring the need for preventive measures in a given indivalual lies, therefore, become a matter of rational and quantitative assessment rather than a decision based on an informed and intelligent guess. (AA)

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A centure structures of naturection, for A years is, an opening of stabilities, again 1.5, of force conficiencement status in 6 officient zeros of the U.S. Also is the some opening of the stabilities of the U.S. Also is the some conficience of the stabilities of the stabilities

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Selected statistics from the Health Interview Survey estings to disability days, houstal disblarges, and persons lajared, by age, sex, and family Income. As family income increases, the number of disability days get person decision for each age group. The relationally between the comment of the person and the series of the disability days get person the disability days are persons and sumber of the person and bowlet distinctures or income and sumber of

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 On the effect of working and living conditions on the occurrence of separatiful infaret.

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A survey was marke of 3 willings in Kanpus, Indoo, 1965 62. Utility seemade to a maniple of 10 familities (978) person), liketurus wore recorded in tuship level of 1965 and 1975 and 1

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 Prevalence of circume congestive heart failure in the population of bisses County, Googja.

Amer J Jipideus B333644, Mar 66. Prevalence of chronic companion in the population of Erran County, Groepia. The rate was 21:1 per 1,000 persons 55-79 years of age, increasing with advancing age. First among begreen my bat in the 53-64 age googs, see the second property of the control of the county age. The county of the county of the county property of the county of the county property of the county of the county property of the county property of the county and county of the county property of the county and county property of the county property of the county property p

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Findings on mean blood glucous levels from the Health
Exemination Survey for edults ages 18-79, and companion with another study. The relationship of blood

guesse level to age, sace, sev, family income, education, place decorption, numbal seatus, usual activity status, occupation, and addistry are examined. Higher mean glacose levels are associated with in-resoling age, women, Notice men; and lower income and education. 15

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Statutes, from the Hubbs Instrucere Source; on use of secretical services and extent of efficients and deadably in the populations, by age. The grimary purpose is to describe this health and cause states of persons 60 years and obler as comparison with that of the youngest segments of the opposition Excession of the comparison of the

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Data collected as the Health Interview Survey show that 38% of all languagemen in the certain, normalitational population were due to impray (no a providence rate of 66.5 impraments due to appay per 1,2000 population About 1 of new y 3 impraisment due to largue resident from an accident value at wink and 1 of 6 from a novema interview largue.

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Data from the Health Interview Survey on dischality, inmess, and the use of medical survives for persons in the
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Findings based on the Health Examination Survey for udults, ages 18-79. Mean syntofic pressure in the U.S. pottleton rises with increasing age. Mean distable presure rises until age 4-5-5 for mean and 5-5 for winners at eider ages it declines. Under age 45, bland pressures at eider ages it declines. are higher for men than for women, over age \$4, blood pressures are higher for women than for men. A traper am girth is associated with higher blood pressures. Find-ange for other population georyst are generally sendin to those for the U.S., and the blood pressure levels presented here some comparable work those obtained in the usual children statution and are sentiar to the stendards presently in own the U.S. I Tables, (AE).

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 Blood pressure of adults by race and men, U.S., 1960, 1962.

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 GORDON, T. Glucose tolerance of adults, U.S., 1960-1962.

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 GORDON, T. Heart disease in adults, U.S., 1960-1962.
 Vital and Health Statistics, Series 11, No. 6, Sep 64.

> Faddings based on the IteaHi Examination Survey for adults, ages 14.79, About 14 million U.S. adults towed definite heart disease (more women than men) and nearly that many have superch tent (bases (more men) than vomenes). The most common form is lypsy tensorie within the properties of the common form in the common white, Prevalues of officials heart allower now from the white, Prevalues of officials heart allower now from the time 25 of persons ages 18.24 to 39% of most and 46% of women ages 75.99. A large number with heret disease had more than one samifestation of the disease and a substitution of the common supercharacters of the disease and a substitution of the common supercharacters of the disease and a substitution of the common supercharacters of the supercharacters of the substitution of the common supercharacters of the supercharacters of the substitution contribution of the supercharacters of the supercharacters of the substitution contribution of the supercharacters of the superchar

 GORDON, T., DEVINE, B. Findings on the serologic test for syptrilis in adults, U.S., 1960-1962.
 Vitel and Health Statistics. Series 11, No. 9, Jun 65.

Findings on the secologic test for syphilis done during the Health Examination Survey for idults, ages 18-79. Blood spoomens were taken, and the Kohner Review Pretent and Viences Desaws Rescared Laboratory methodswere word to determine seriologic endence of sprihis. Description of the serologic test for sprihis, the seriopolar spring and seriologic endence of sprihis, the seriologic spring seriologic seriologic spring seriologic spring other surveys are disclosed. The relationship of fluidrags to age, sex, resc, family meson, education, place, surarial titus, and occupation are chamined. The perminence of posture SST familiags was higher an, must have seriologic spring seriologic spring and seriologic spring seriologic spring seriologic spring seriologic spring recovery property. To clashe seriologic spring seriologic spri

 GORDON, T., DEVINE, B. -Hypertension and hypertensive heart discuse in adults, U.S., 1960-1962.

Visal and Health Statistics. Sures 11, No. 13, May 66.
Findings on the prevalence of hypertension and hypertensive heart disease (HHD) from the Health Evanuation, Survey for industs, ages 13-79, and comparison with other surveys. The relationship of the prevalence of hypertension and HHD to age, rate, as, Panish memory.

edirection, residence, marrial status, avail activity status, occupation, and initiostry are examined. Definite hypertursion and IIIID were more prevalent in such and in Negroes. Prevalence also varied by residence and occupation. There was no strong nation of prevenience evanciated with income or education. 20 tables. (Afed)

GORDON, T., GARST, C. C.
 Coronary heart disease in adults, U.S., 1960-1962.
 Vital and Health Statistics. Sensy 11, No. 10, Sep 65

Findings on the prevalence of concurary host disease (CID) from the Hostil Dissumshink Survey for solder, agas 18-72. Descriptions of the diagnossing, data collection, and comprehense with results to other surveys are included. The cultiforming of the prevalence of CID to the contract of the contrac

 GORDON, T., WATERHOUSE, A. M. Hypertension and hypertensive heart disease. J Chrome: Dir 19:1089-1100, Oct 66.

> The Health Examination Survey, National Center for Health Statistics, ordented 17-10 million noninstitistionalized American adults, ages 18-79, to here definite to a large orden and the control of the control of the project could be seen a finished. Some of the control beat disease, (i.e. of U.S. soniastituitean) population, as 18-79. Problems of interpreting versy and control of the control of the control of the control of the and integrant hypertensions are decisioned. S tables, 3 and integrant hypertensions are decisioned, 5 tables, 5

 GORWITZ, K., BAHN, A. K., KLEE, G. Release and return rates for patients in state mental baspitals of Maryland.
 Pub Health Rev. 81:1095-1108. Dec 66.

Patterns of retention, release, and rehospitalization were studied for patients admitted to 3 Maryland State mental hospitals, July 1961-December 1962, Patients are 25-54 and definition of the second o

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#### 90 HANKIEWICZ, J., MACHALSKI, M.

Influence of meteorological factors on the occurrence of hemorrhage and perforation in patients with peptis, where Pal Arch Med Wenner, 36, 769-75, 66

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#### 91 HARE, E. H., SHAW, G. K. A study in family health. 1 Health in relation to family

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The beath of purents and chalitre in a similate sample of 499 when families were determined by household interview staff the patient after more record keep to greezel pactionsers. The tables or various indices of physical and mental all-beath of the record particular particu

92 HARE, L. H., SHAW, G. K. A study in family health 11. A comparison of the health of fathers, mothers and children. Bot J Psychont 111 467-71, Jun 65.

Parents and children in a random sausele of 499 families have been compored for health and personality factors. Information was obtained from household interviews and from general practitioner records. Poor health in one parent was associated with poor health in the other narent and in the children. There was a strong association between carenty for neuroticism but none for extraversion. Attention is drawn to the difficulty in enideninlogical studies of distinguishing poor health from a low threshold of complaint, and also to the possible importance of distinguishing neurosis from neuroticism The results are discussed in terms of the hypotheses of assortative mating and of interaction between sponses, 5 tables 10 references, (AA)

93. HASHIMOTO, M., HASHIMOTO, N., ISHIHARA, M. Characteristics of myocardial infarct is the Japanese, with special reference to a companson with Europeans and Americans Jan J Clin Med 23:1694-1702, Sep 65, (JAP)

94. HILLMAN, R. W., REUTER, M., DEMAREST, E. Smoking and illness experience of student nurses. Pub Health Ren 82:633-8, Jul 67,

No English summary.

The illness experience of 84 student nurses who smoked was observed to be significantly less favorable than that of 185 nonmoking personnel. The excess murbidity incurred by the smoking group was noted in respect to nonrespiratory as well as respiratory conditions. Smokers tended to be of greater stature and of relatively lighter weight than nonsmokers. They also included a greater proportion of students whose mental health status was identified as questionable. Infants subsequently born to smokers weigh less at birth than those born to the nonsmokers. This difference was especially conspicious mnong female infants and was evidenced even after adjustments for the generally lighter both weights also recorded for the mothers who assoked. Longitudinal studies are required to delineate the precise role of constitutional factors as well as the early and residual effects of smoking on health status, 4 tables, 36 refereness. (AA)

95. HINKLE, L. E., JR. The use of a large industrial population to study the offects of social and behavioral factors on coronary ligart discase.

Amer J Public Health 56:1470-5, Sep 66. Health data of employees in a nationwide industry are utilized to investigate coronary heart disease. The normlation is highly homogeneous and covered by a benefit program, 5-year opideoriological data are now being

analyzed 4 tables, 6 references, (AEd) 96. HINKLE, L. E. JR., BENJAMIN, B., CHRISTENSON, Coronary heart disease, 30-year experience of 1,160 men. Arch Environ Health (Chicago) 13:312-21, Sep 66.

At see cohort of 1,160 men, sees 30 to 60, from I write of an industry (Western Hemisphere) has been studied over a neriod of 30 years. Deaths from coronary heart discave among the cohorts and the prevalence of manfestations of coronary heart disease among the survivors at age 60 lawe been examined. Death rates among those dispussed retigned and returns were comparable to death rates among the men who renadized on the payroll, The 30-year coronary death rate for the whole cohort was 5.6%. Among the survivors still on the payroll at age 60, 14.6% exhibited definite evidence of coronary heart disease. The rates are comparable to those of American men of the same age. 11 tables, 30 references. (AFd)

97. HOFFMANN C. II Disability among persons in the labor force by employment status, U.S., July 1961-June 1962. Vital and Health Statistics. Sector, 10, No. 7, Mar 64

Data collected in the Health Interview Survey indicate that persons in the tabor force averaged 12.3 days on which they had to reduce their usual activities. As family income increased, restricted-activity days decreased, but the decrease in the rate was sharper among the employed than among the unemployed. The percent of servous with one or more chronic conditions was about the same for the employed as for the unemployed; however, 17% of memployed group had activity hautation compared with 10.5% of the employed. High rates of chronic illsess and limitations were seen among private household workers, and low rates for clurical and salesworkers. 18 tables. (AEd)

98. HOLLAND, W. W., REID, D. D. The urban factor in chronic bronchetis. Lancet 1:445-8, 27 Feb 65.

> A survey of prevalence of respiratory symptoms and sautum production, and of Jung-function Jevels, was made in Post Office employees doing similar jobs either in central London or in and around the three towns of Norwich, Peterborough, and Gloucester. These areas differ notably in the reported death rates from chronic beonelistis. Pretleularly over age 50, London men had more and severer respiratory symptoms, produced more sputum, and had significantly lower lung-function test results. Personal anokme habits were closely related to frequency and severity of responsory disturbance, but urbon-meal difforesees in smoking liabits could not explain the greater prevalence in London of symptosos, phlegas pradaction, and poor lung function. Of the factors reviewed, differences in local levels of air pollution appeared to be the likebest cause of the difference in respectiony morbidity between men working in central London and those in the three raml areas, 4 tables, 3 figures. References. (ABd)

99. HORVATH, A., PAPP, C., OLOSZ, E. Statistical findings on excess weight, Correlations between body weight and frequency of arterol hyperten-Stud Cercer Endocr 16:285-91, 65, (RÚM) No English summary.

100. ITUITTI, E. Prevalence of respiratory symptoms, chronic broachitis and sulmonary emphysoms in a Finnish rural nomintion. Field survey of age group 40-64 in the Harjavalta aren.

Acta Tuberc Scand Suppl. 61:3-111, 65.

In the Harjavalte area, 96% of 761 men and 925 women, ages 40-64, were traced. Data from conestionnaires, chest X-rays, and lune function tests were need. Persons with tuberculous or other respiratory diseases were excluded. Smoking, purticularly eigenetics, is the most apportant factor in the occurrence of respiratory senutoris, especially cough and phlegm, and of chronic nompositic lung disease. The part played by sex and age in respiratory symptoms may be questioned. Cigarette smoking seems to reduce forced expuratory volume () EV) and peak expuratory flow (PEF) values in men but not in women. This would seem to suggest that women smokers constitute a group which is selected in one way or another Smoking does not fully account for the difforest LEV and PEF values when companies the Harisculta survey with certain series studied abroad. Possible international differences in results of these function tests scen to ment further investigation, it would seem that the prognostic value of cheenic branchitis is not the same in men and in women. Prospective studies might provide more thorough amounts to problems associated with chronic nonspecific lung disease. 19 tables, 10 figures 206 references (AEd)

101. HURLEY, P. L., CONWELL, M. Public mental hospital release rates in five states, 1954 and 1960

Publ Health Rev 82:49:60 Jan 62. Two groups of naturals first admitted to State and country mental beamtals in 5 States in 1954 and 1960 were studied. First release rates of cobores of nationts with achizophrenia and diseases of the senium were compured. The "first significant release" method of analysis was used. It appears that prembers of the 1960 cohort with schizophrenia or discuses of the senium were released earlier and at a higher rate than members of the 1954 cobort. Since the years considered represent a time period before and after the widespread introduction of new thecapeutic agents and the institution of more intentive treatment modulities, it is believed the data reflect the influence of these two factors 2 tables 6 feeures 4 references (AEd)

102 HUSZAR T. Statistical study of morbidity and mortality through mellatus diabetes in the Socialne Republic of Romania. Saut: Publique (Bp. ur) 8 433-9, 1965.

in 1963, 2,759 new patients with diabeter (14.6/100,000) and 12.088 both new and old patients in Romanu were traced Mortality is lower in Romania than in other Turopean countries. It is higher in urban than streat areas, and higher in Banat and Transplyania in companson with the rest of Romania Prevalence among women is 100 higher and mortality 200 higher than mong men Three-fourths of diabetics are over age 50 and deaths usually occur over age 60. Records those 1. times more cases on record than those traced by mass medical examinations Considering demographic phenomena and the state of public health in Romania, an incicate in diabetes may be expected in the next few decodes 6 figures, 5 references, (AEd)

03 IUTAKA, S. Social status and illness in urban Beard Milbert Men Fund Quart 44 Suppl: 97-110, Apr. 66. Report of one of the first attempts to survey health and social Status in Brazal, by household response to a questronnaire. Problems including disteracy are discussed.

200 adults in a district were studied for 1 month. Infoctive and parasitic disease were the major courses of morbidity. Morbidity incidence, type of care obtained and medical expenses are given by social status. 6 tables. 9 peferences. (Ed)

JACKSON, W. P., GOLDIN, C., MARINE, N. Disbetics-inter-racial comparisons. II. Retinopathy and heart disease.

S A ft Afred J 40:206-8, Nar 12, 66, The retirs of 706 patients attending the Diabetes Clinic in Cape Town (South Africa) were examined; 35% had retinorathy. The percent rose with duration of disbetes and with see. It was higher among Cape colored females but otherwise little racial difference was noted. Freowency of disbetes among the Bantu was as high as in other racial groups, provided duration of diabetes was taken into account. Bantu diabetics had the lowest prevalence of hypertension and lattle or no ischemic heart disease, Mosfems showed the highest frequency of

hypertension and techemic heart disease. 4 lables, 6 105 JACOBZINER, H. Causes, control, and prevention of accidental possonings. Pub Health Rep 81:31-41, Jan 66.

references. (AEd)

In 1955, there were 2.910 accidental postoning cases in N.Y. City, and in 1963, 19.485. (Perhaps a better syxtem of reporting accounted for some of the menuse). These are several types of accidental poisoning; internal and external medications taken by mistake, household possons, pesticides, and lead. Most poisonings were among persons under see 20, with largest percent around ages 2-5. Some children are accident prose, more hoys than gais get possoned, perhaps because of curiosity. Most accidental personings occurred in the afternoon or early eventing, when an adult was in attendance but momentardy distracted. Prevention will require participation of an entire from of health workers, . 3 tables. 3 figures, 13 references, (E4)

106. JANICKI, K., GURDA, M. Considerations of seasonal variation in leukemias.

Acta Med Pol 6,359-78, 65,

Seasonal variation of leukemia was studied in 1.806 hospitalized cases, 1951-62. Analysis was carried out by distributions of hospitalization rates according to months and quarters of the year, by sex, age, and type of leakemis, and on the combined material over a period of years, and for each year separately, it was concluded that the studied material is uncharacteristic and irregular and does not support the data in the literature suggesting sensonal variation in incidence of leskemis. 1D tables, 1 figure, 28 references, (AE-II)

107. JOHNSON, B. C., EPSTEIN, F. H. Absence of peripheral pulse in relation to other arterial disease in a community endy Amer J.Public Health 55:1482-92, Sep 66.

Data are presented from the Tectumieh Community Health Study in which 88% of the community was exarrined during 1959-1960 as the first planse of a longltudinal health study. Variables positively related to coronary heart disease (CHD) such as blood pressure, relative weight, and blood sugar were also found to be related to absence of pedal pulses, A similar tendency was noted for serum unic acid levels, Serum cholesterol was not definitely relatable in prevalence of other CHD or absent pulses. Since over half the men and 1/3 the women over age 60 who had absent pulses also had CHD, diabetes, or both, it is suggested that evaluation of peripheral arteries may ultimately provide in stself a risk-factor variable of prognostic significance to cotonary and corbral arterial discose. 3 tables. 29 references. (AEd)

108 JOHNSON, F. S., KELLY, J. E., VAN KIRK, L. E. Selected dental findings in adults by age, race, and sex, U.S., 1960-1962

Vital and Health Statistics Series 11, No. 7, Reprinted

Findings based on the Health Framenation Survey for adults, ages 18-79. Substantial differences in deatal status were found between white and Negro adults White adults were twice as likely as Negro to have lost all their natural teeth, either in one or both pays. The average mumber of decayed, missing, and filled teeth in Negroes was only about 2/3 of the number found in whote persons, 14.5 and 21.2 torth, respectively. On the other hand, destructive periodontal disease was half again as prevalent among Negro as among whate arbits, Comparisons are made by age and sex. 10 tables. (Abd)

#### 109. JOHNSON, K. G., YANO, K., KATO, II. Cosched vascular disease in Hucohano, Japan. J Chron Dix 20:545-59, Jul 67.

Cerebral viscolar disease (CVD) in Hiroshima, Janua, is dewritted for 1958-1964 lucatence of CVD in insigs over use 30 way 7.4/1.000/rear and in females 4 l. approximately twice the mentence of CHD. The lienumery of cerebral thrombows was twice that of corchest becourbage. These fundames on incidence and type of CVD are in accord with the known lugh steidence of this discase in Janua but do not suggest that any disease other than atheroseleenss of the cerebral orieries is responsible. Hypertension, cardiouseguly (ascertained by ECG or chest film), and proteinuria were important factors in the risk of subsequent CVD. The association between hypertension and CVD, and the evidence that CVD is deellouse in Japan, the U.S. and Europe during a period of wide-result use of antihypertensive agents, uncourage further study. 4 tables, 7 figures, 30 refer-

110. KAHN, B. A., DAWBER, T. R. The development of coronery heart disease in relation to sequential beautial measures of cholesterol in the Framisoham Study

J Chron Dix 19:611-20, May 66.

ences. (AA)

A method for using senul cholesterol measurements obtained in the Framingham Study through March 1963 and relating these to the risk of developing coronary beart discuse (CHD) is described. Within the range of values observed, measures of cholosterol slope or variability are not strongly related to the risk of developing CHD. For diagnostic eategories of CHD other than CHD death, no function of the cholesterol values studied could approximately improve the distributory power of the original value among men although there was moderate improvement with later cholesterol levels in risk discrimination among women. 4 tables, 6 references. (AEd)

111. KANNEL, W. B. Hubitual level of physical activity and risk of coronary heart disease: The Franingham Study. Canasi Med Ass J 96 811-2, 25 Mar 67 In the Framingham Study, the level of physical activity

was enudely assessed in 5,127 men and women from a 24-hour botory of activity and from obsertive playsiologic measurements. In this sedentary population, the most solentary were more liable to fatal heart attacks but not to annue pectoris. According to 3 objective inficotors of physical activity-weight gain, vital expacity, and resting naise rate-there was a 5-fold speater mortality from coronary heart disease among the most sedentary than among the most active. Physically active middleagtd persons with advanced coronary atherosclerosadevelop adequate colleteral circulation white their sedentany cohorts do not. 3 figures 23 references (Ed)

KANNEL, W. B., DAWBER, T. R., MCNAMARA, P. M. Detection of the coronary-prone adult: The l'ranningham Study J Iona Med Soc \$6 26-34, Jan 66

The epidemiologic approach to the study of coronary heart disease (CIID) has been employed at Fransrubian. since 1949, through bornial examinations of 5,127 men and women, 30-60 years of sec, for initial development of CIID. Assessment is reade of some factors of susceptibility related to age, sex, lipid and blood pressure levels, and genetic factors. Data are included to show incidence of infarction and sudden death, and risk of CHD. CHD is not simply the inevitable consequence of advancing ago and whore metabolic errors determined at the moment of conception. Many observations point to potent corresponded influences, and there is evidence that habits and way of life are related to the incidence of CHD. Subscets who were predisposed by hypertension and an elevated serum cholesterol level and who smoked bravely developed a marked excess of 'boart attacks.'. 15 figures. 4 references. (Ed)

113 KARDOS, G., VARGHA, M. Data on the problems of alcoholms from the viewpoint of social psychology and endomiology (Analysis of 4,241 cases, comparison of 2 periods: 1953-1955 and 1963-1965.1

Orr Hetil 108,743-7, 16 Apr 67 (HUN)

Analysis of a series of 4,241 subsects during two 2-year periods, 1953-55 and 1963-65, in Hungary showed a shift of alcoholism toward younger age groups, Nearly 2/3 of alcoholies admitted to howestals see under age 40. Alcoholian showed a decreasing tendency among subicets with waversity or secondary school education and an increasing tendency among afflicent young people with little schooling. About 3/4 of alcoholies are married. Progutney of alcoholism is about the same in urban and rural populations. There is a high frequency of

recidivism among former ofcoholies. (From Executa Medica, Sec 17, Vol 13, No 11, Nov 67.) (Ed) 361. KATSUKI, S., HIROTA, Y. Recent trends in intellence of ecuebral hemorrhage and infarction in Japan, A report based on death rate, autopsy case and prospective study on cerebrovascular discase.

Jep Heget J 7:26-34, Jan 66.

114 KATSUKI, S., OMAI, T., HIROTA, Y. I pulsamological and citizeopathological studies on cerebrows, ular decese. Eurole J Med. Ser. 15, 123-49. Dec. 64.

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#### 113 KELLGREN, J. H

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116. KELLY, J. E., VAN KIRK, L. E. Periodontal disease in adults, U.S., 1960-1962

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117 KLLLY, J. E., VAN KIRK, L. E., GARST, C. C. Decayed, missing, and filled treth in adults, U.S., 1960-1962.

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118 KELLY, J. F., VAN KIRK, L. F., GARST, C. C. Oral hygione in adults, U.S., 1960-1962.

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disease. 12 tables, (AEd)

National estimates from the Hotalith Examination Survey of the susaber of adaptive, gas 1877, by these local still of their permission technic permission to the properties of asserting the permission technical permission and a state of the permission technical permission technical

KEYS, A
 The infinidual risk of coronary heart discase.

 Amn NY Acad Sci 134, 1046-56, 28 Feb 66.

Indowndan risk of developing coronary dances or drying from soul develops in mitated to age, sex, country of resultance, populations develop; and eccupiation. Older resultance, populations develop; and eccupiation. Older control of the control of

 RHEIFETS, L. B., LIVSHITS, V. M.
 On the use of certain methods for statistical assessment of a unit morbidity rate.

ZH Mikrobiol 42:86-91, Sep 65. (RUS)

121. KIMURA, T., OTA, M.
Egidemiologic study of hypertension. Comparative re-

sults of hypertensive surveys in two areas in Northern Japan.

Amer J Chin Nutr 17, 381-90, Dec 65.

Causes of regional differences in mortality from cerebral vascular lesions were studied in a sandom sample of recidents from 2 villages, A and B in Northern Honshy, Japan Death rates from the decision of week 222.6 per 100,000 in a compared well follow in B, 1985-86. 100,000 in a compared well follow in B, 1985-86. 2 money make agos 50.95, 71% of A had blood previous here of 1160 (verbick) analyor 50 (destone) mm. (ECC more compared unth 225 in B. Chimate and seami lipid keyels were not under carried to the compared to the co

#### KING, H., BAILAR, L.C. Epidermology of urmary bladder cancer. A seven of obscuted fiterature.

J Chron Det 19 735-69, Jul 66.

#### 122. KINZIE, J. D., KINZIE, K., TYAS, J. A consparative health servey among two groups of Miley in inborigines. Med J Mileya 21: 125-9, Dec 66. A consumative study malading physical examination and

laboratory ésits of two groups of abongines, Peralouco rates are green for othis media, dental onties, polyable queen, mainten, parasteron, lapporteason, channel dephanilisels, milant and child mortality, Racial dissumhantess in presultance are discursed. 5 tables, 5 references, (Ed)

#### KLAINER, L. M., GIBSON, T. C., WHITE, K. L. The opidemeology of cardine failure. *J Chrow Dis* 18:797-814, Aug 65

#### KLARMAN, II. E., Socioeconomie impact of heart disease Nat Conf. Cardsor Dir 2:693-707, 64.

Measurement of consome costs attributable to the conflorenceder diseases or the benefits that would accounif these diseases, were eliminated or controlled. Discusses the potential increase in the national income or GNP that could be achieved through the elimination of the director, and the volume of health resources that each be diverted to other uses through a seving in medical enecexpenditures (direct cost). The measure of economic benefits should include the value of averting such intangible costs as grief, pals, and suffering, e.g. orphonbood. The calculated present value of all economic costs attributable to endsprescular diseases as 1962 is \$30.7 billion. To measure the benefit of the hypothetical olimination of the curtiova-cular diseases, procise knowlodge is required of the effects of specific services on the health of the population and of the expected cost of producing and purchasing such services, 11 tables 32 references. (AE4)

#### KLIMT, C. R., MISINERT, C. L., HO, J. P. Sindy of finadial patterns of reported diabetes. Evaluation of question-mine data. *Diabetes* 16:40–41, Jun 67.

A family bitary mrey questionnee was given to 31,066 students entering the University of Ministroin and Judicia students entering the University of Ministroin added to the Students and the Students and the Students and of such of his parents. The percentage of this traction and of such of his parents. The percentage of this parents of the students of such of his parents. The percentage of the students of the st

with meither parent affected (even by parental age). Mortality rates did not appear to be correlated with the nominose of diabetic parents. Sources of error in this and its retrospoctroe questionnine-based sinders in general are analyzed and discussed 16 tables 21 references (AFA).

#### 125. KLONOFF, H., ROBINSON, G. C. Epitieminlogy of head injuries in children A pilot study

"Stockward of the Control of the Con

#### 126 KNUPPER, G.

Some methodological problems in the epidemiology of alcoholic beverage issue definition of amount of Intake Amer J Pub Health 56 237-42, Feb 66.

Discussion of alcohol consumption patterns Methods for intering intake are studied, Proporary versus quantity is discussed. The "dulty light dimitera" and the "Weekly licity drinkres" are described. Data are presented from the California Drinking Practices Study 2 tables, 4 references (Ed)

#### KNUPFER, G. V. The epidemiology of problem drinking. Amer J Public Health 57: 973-91, Jun 67.

Conceptual and operatornal diffrantice involved in design a modelably survey of problem dimiting and choosised, and preliminary seasits of a survey on gaven 10 audion and preliminary seasits of a survey on gaven 10 audion and season seed conceptually, house, foreign sign with pick, pilote, quesson, dependence (e.g. voll-range, nelection), and conceives a size of p., houge, foreign sign studey. The Princeton, Prevalence sizes for each of the radious are conceived as the conceived control of the conceived sizes of each of the radious are conceived as the conceived new seeds of the radious are conceived by the conceived foreign sizes of the radious are seed to the conceived foreign sizes of the radious are seed to the conceived by the conceived foreign sizes of the radious are seed to the conceived foreign sizes of the radious are seed to the conceived foreign sizes of the radious and seeds to the conceived foreign sizes of the radious and the conceived foreign sizes of the radious and the radious sizes of the radious and the radious sizes of the radious sizes of the radious and the radious sizes of the radi

## KONISHI, H. Tuberculosis prevalence survey in Japan in 1964 Erickehr 40:445-53, Oct 65.

A nationwide survey of TII providence in Japan, 1963 and a following study in 1964 in our-third of the John districts reverted in gradual increase in rate. The data verse compand with surveys of 1988-59. A slight decrease among older say groups was teen, in 1963, only 46% of cross records actual treatment but this superverd with the providence of the control of the providence of the prov

#### 129 KRIVINKA, R., COUFAL, K., POLANSKY, F. Development of the epidemiology of telecrolosis in Czechoslovačna after the econd World War. (CZ)

Cesk Zuhav 14:79-88, Feb 66.
Information about TB in Czechoslovskia first became adequate in 1948-49, but only since 1960 has an active

cont rigister been in use Between 1960 and 1964, the inadirate of new cases his been declaring at young people but incusting in other seg groups Mertality has matically declared. Boncover, at least another 20 years will be required to reduce TB infection in Cerebootivides to magniful and proportions. 10 graphs 8 references. (Cl0)

130 KUROKAWA, F. KUBO, A., FUCHIGAMI, A The annual moderne and sex and age distributions of early storesch cancer.

carly storesch cancer Ign J Cancer Cliv 11 804-11, Nov 65. (JAP)

#### 131. KURTZKE, J. F.

No English summary

stea Norsel Scoul 4 (2314), 6.

To other to registate the extreme as "foco" of multiple selection (MS) in Neeran, Seaska, Diminisk and Struit, extraction, extractions and the distributions of 155 suit thinse of other distributions of 155 suits thin of other distributions of 155 suits thin of the distribution of 155 suits thin of the distribution of 155 suits thin of 155

The distribution of multiple selerous and other diseases.

of orset of MS. 5 tables. 60 references. (AEd)

12. LAPUSAN, I.

Mobidity and stortality in the hospitals of the SR of
Russman in companion with the morbidity and mostalsty of the provisition of the whole coastisty of the provisition of the whole coastisty of the provisition of the whole coasti-

Saute Problems (Burry) 8/195/213, 65

Statistics from 70 hospetals in regional capitals in 1959, comprising a 107; sample of all patients robused from hospitals in the country. Data are green for merchafty and anottality, by sex and ago, Causes of hospitalezation and rates by cause see compared with rates of morbidity.

## and montality for the total population. 12 tables (Ed) 133 LEBMAN, L W Social tests and coronary heart disease: A sociological security of the medical interative. J Chron Dr. 20, 281-291. Jan 67.

The hierardic is recovered to summarize flushings and to collains the strategy affects of could claim. Full transact conflicting flushing are conflicting because of differences in social claim monostructural. Occupation is suggested as the most reliable single incasure of class, if used with education in entitled single incasure of class, if used with education is a multivariate suppreceds notified entitle researchers to amove if there is, as fact, a settlemning herer desired in the confliction of the

#### 134. LEW, E.

Surviouship after myocordial infaretion. Amer J Public Health 57:118-27, Jan 67

Recognizing the difficulties involved in evaluating corenary pathology in mdridual cases, evidence is presented from followup studies that statistical judgments, with certain qualifications, can be made as to the pregnoss of indeviduals with a history of myocardual infarction. The studies were frees insurance records. Some even laid had episades of ceroniary discuse; others, supported coroniary discuse. Vanious groups were followedlip in the spisiolist of coronary disease. Hospital records were much as the survival estimates. Tables of survivorship into and intespertating are given. 3 Islobe. 8 reference. (ACM)

135. LIPSCOMB, W. R.
Survey measurements of the prevalence of alcoholism. A resource of the surveys

Arch Gen Psychiat 15:455-61, Nov 66.

Problems encountered in measuring attoriorism are discussed. Attempt was made to determine how many
practiong physicians have contact with patients with
alcolol problems and how many treat such patients.
Conclusion was that physicians show mereared willingmay to meters themselves in the indobtoke and his

problems. 3 tables. 27 references. (Ed)

199 LISCHNER, M. W.
Provinces of respiratory symptoms in an industrial
population.
Dr. Creet. 50, 476-86, Nov. 66.

 LITTLE, C. C.
 Trends in reported insidence of cancer by age in Connecticut and in New York State (1935-1960).
 Proc Natl Acad Srt USA 54:1779-85, Dec 65.

> A survey on pathology of causer of prostate in min use human is rountine, positronius, lineg and brosselius, aint dem, Connecedient and New York states (eveluting New Vrick Usty), 1933-1960, in each case/geny, the percentage of total cases in each 5-vear age group has been determined, and the relative go distribution for successive your periods charted; in general, rates by site and figures. 3 references. (AEd)

 LOFGREN, S. (Editor).
 Proceedings of the third international conference on surcodoist, Sept. 11-14, 63
 Acta Med Source 170, Sunni 425, 92-177, 64

980 LOGAN, W. P. D. Mortwatty statistics from general practice in England and Wales.
Who Public Health Rev. 27 158-62. 65

 LOWELL, A. M.
 A view of tabreniosis morbidity and mortality fifteen years after the advent of the chemotherapeutic era, 1947-1962.
 Bibl Thibrer 22: 55-124, 66

A detailed under he presented of interection in the visconi Hemophers, Immop Africa, Man O'cennia, M

#### 138 MACCHARITS C.W. Information on morbidity

Cound Med Ast J 97 331-6, 12 Aug 67

Information obtained from studies on merbality is water

only in relation to the specific time, the existing circumstances, and the methods used in the study. Data for Ontario, 1963, regarding morbidity "sengrations" from hospital and sick persons treated in a healthinsurance scheme are compared. Conditions that are not an important cause of death may make great demands on physicians' services. Sex-related variations were found in the order of fremiency usage of physicians' services, e.g. for ages 45-64, coronary thrombosis ranks first in males and 15th in families. In 1954, the rate of physicians' services for mental, psychonturotic and perionality disorders was 33 sick persons per 1,000 participants. In 1963 the rate was 61 Explanation for the increase is not appearent. Such information is of value in planning agreets of medical services provision. 2 tables. I graph 5 references, (AA)

#### 139. MACMAHON, B. Enidemiology of Hodekm's disease. Concer Res 26:1189-201, Jun 66.

The enidemiologic features of Hodgkin's disease in 3 age groups, 0-14, 15-34, 50 and over, are summarized. Bimodality of the age incidence curve sugments the idea that the entity as now described is heterogeneous. Two hypotheses are proposed on the basis of the epidemiologic evidence and a brief consideration of nathelogy and prognosis. Persons with Hedgkin's disease include at least 3 sub-groups, the ctiology of which may be quite distinct. Hodgkin's disease in young adults is a thronic granulomatous inflorogration, where as that occurring in persons over 50 is a reoplasm, 9 tables, 44 references, 4 charts. (AEd)

Vitel and Health Statistics. Scries 11, No. 19, Oct 66.

#### 140. MACMALION, B., WORCESTER, J. Age at menonause, U.S., 1960-1962,

Findings on the menopunsal status of women participating in the Health Examination Survey for adults, ages 18-79. Frequency of operative menopeuse and age at natural menopouse are examined in relation to race, marital status, parity, family income, geographic region, height, and skinfold measurement, 25-30% of women ages 50-64 reported operative menopulse. Negro women reported operative menopsuse more frequently than white, and single women less frequently than married. Women with small skinfold measurements may have natural memopauses slightly carlier than average. There were no other substantial associations with demographic and physiologic variables examined. 7 tables. (AEd)

#### 141. MADAR, J. Statistics and epidemiology of atherosphrosis. Car Lek Cesk 105:68-74, 21 Jan 66. (SLVK)

In anations which consume a diet low in colones and fats, death from coronary sclorosis is rare. Diseases and conditions associated with chronic hypercholosterolemia are found along with atheresoleresis. Among many possible etiological factors, fats have an important place. More research is needed. 4 tables, 54 references. (AEd)

#### 142 MAINWARING D Epidemiology of acute leukemia of childhood in the Lugregool agea Brit J Prev See Med 20 189-94, Oct 66

Etiological factors known to influence the development of leakensa in man include ionizing radiation and elmoronomal almormalates. These were 74 cases of scute leukernia in children under nee 15, disenoved 1955-1964, in the Liverpool area. Seasonal variation was not found but eases tended to occur in certain more densely populated areas. A clustering factor was detected by application of a computer technique. An excessive number of nors securated by less than 4 km and 300 days were found 6 tables 1 figure. 17 references. (AEd)

#### 143. MARKS, R. U.

Social stress and cardiovascular disease. Factors anyolying social and demographic characteristics. A review of empirical findants. Afribank Mem Fund Quert 45 Suppl: 51-108, Apr 67

Review of research concerning relationships between specialized aspects of demographic variables and coropary heart discuss. Different types of studies, the variety of study populations, and the frequency of methodologically unsound or madequate studies make a quantitative summary evaluation mappropriate. The immediate need is for research in coronary heart disease rates that appear to be related to occupation, education, and retail or urban residence Evidence from these studies suggests that social factors may play a definite role is the atiology of coronary disease. 154 references (AEd)

#### 144. MASI, A. T. Population studies in riscumatic discuse Ann Rev Med 18:185-206, 67

Discussion of population stadies in rheunatre discuse in terms of available data, limitations, and contributions to understanding the disease. Problems are seen in the inadequaty of definition and criteria of disgnoses for some rheumatic diseases. Closer cooperation between the emdoutologist and the christien is needed (AEd)

#### 145. MCCARROLL, J. Measurements of morbidity and mortality related to air politation J Air Pollyt Contr Ast 17 203-9. Apr 67.

Associations of peaks in mortality in New York City with persons of high me pollution is demonstrated. Morbidity as indicated by symptoms of cough and eye irritation in 1,000 persons observed for 3 years is ecompared with the levels of SO<sub>2</sub> and particulate density to which they were exposed. Time lags of up to 28 days were introduced into the morbidity data sed a constant relationship between air pollution levels and the symptoms was slegten. 9 figures. 10 references. (Ed)

#### MCCARROLL, J., CASSELL, E. J., WOLTER, D. W. Health and the urban environment. V. Air pollution and illness in a normal urban population. Arch Euriron Health (Chicago) 14.178-84, Jan 64.

To determine if there is a segular relationship, immediate or delayed, between the appearance of an illness symptem in a population and some measure of air pollution, 1,822 persons living within a half-square mile area in New York City with automathy homogeneous at pollintion were studied. A dish record of 11 symptoms of these was obtained by a week form of 12 symptoms of the studies of the studies of the settle studies of the settle study to large valence of builds and air pollistion data over large profile, it is possible to domnostrate a consistent reflectively between cettain measures of environmental pollution and the presence of ympotems is a normal urban population. 7 figures 2 references, (AGD)

#### 147. MCDONALD, J. C.

#### Enfluenza in Canada Canad Med Ass J 97:522-7, 2 Sep 67.

Inhitary spriemics in Canada duming the last 60 years are well difficied in time and severity by the usual mortality institutes and by acciouse absence figurate from a contract process of the contract are operated to the contract process of discussion in the contract process of the contract pr

#### 148. MCDONOUGH, J. R., HAMES, C. G., GARRISON, G. E. The relationship of hematorist to configurascular states of facilities the Negro and white population of Evans County, Georgia. J Chew Dr. 18:243-57, Mar 65

Hernstoni dats from Fuer Courty, Gregos, Jones applicable, Deri Cale for Nigros and in for wines, applicable, Deri Cale for Nigros and in for wines, applicable, and the second section of the sec

#### 149. MEIGS, J w Epidemology of coronary disease in industrial workers Absenter rates and percental disease hydrafes.

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Abstratesses was rebuild a relation to opported causes
of partial defath is a group of 59 men, agol 50 mel,
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#### MEIGS, J. W., ALBRINK, M. J. Epidemiology of coronary disease in industrial workers Absolve rates and serum lipids. Arth Brainian Health (Cheaps) 13:645-54. Nav. 66.

Accordance and seem light in ralation to coronary denses were staided in a pump of 164 male barroy production workers. After exclusion of those write accurate abstract acts and non-heart disease, 28 males without readenes of lushimes heart denses (III) were available for comparation with T<sub>2</sub> articles and the pump armible for comparation with T<sub>2</sub> articles and the consistence of the pump of the control of the coldifications between groups supported the hypothesistic data trabilities with IIID drifter is underlying barrow spenneding resistance to unaccoronary denses as water spenneding resistance to unaccoronary denses as water 22 references. (Allow to 111D 3 bids. 2 figures 2

#### MIALL, W. E., LOVELL, H. G. Relation between change of blood pressure and age. Bit Med J 2:660-4. Jun 67.

A random sample of 2 populations in Wales (Rhondidin loads and The Vals of Climino gas) were surveyed 3 times between 1944 and 1946 to shift by the relation between the properties of the relation between this part is plot to study the relation to the state present station but only indirectly established to the state present station but only indirectly established to the relation to the relation

# MICHALSKI, E., OSTROWSKI, K., SRZYSKO, W. Coronny dense incomposers of the National Bank of Poland, screeding to periodic examinations in 1960, 1962, and 1964, (POL) Pol Try Let 21:1444-6, 19 Sep 66 Analytis of coronny disease in a group of 99 norm and 112 worses above age 30 examined 3 linus. Historical

data and EGC Intelling were taken according to WHO centrelist, and EGC training were enhanted according to the Minnesota code. In the comployees of this institution, the permitting of unquerted cronwry draware consequent works of the percentage of unquerted cronwry draware consequent many in the consequence and the accurate constraints, and the accurate and the

 MICKAL, A., BEGNEAUD, W. P., WEESE, W. H. Glicose tolerance and excessively large leafants. A curcincyear follower study.

## year followay study, Aust J Obstet Gywe 94:624, 1 Jan 66. 153. MIKKELSON, W. M., DODGE, H. J., DUFF, I. Ir. Estimates of the previous of resumatic disenses in the population of Tecumski), Michigan, 1950-60.

J Chronle Des 20:351-69, Jun 67.

The Treumsteh Community Health Study is a broad third of health and distants in a community activing, using over 90% of the Treumsteh next continuous programs of comprehensive limids examination, 1959 on quaries were unade reporting rhammatic symptoms, ply-call examinations of the spens and perpithent joints, and the lates fraction test for thoumatold factor and sensin set and measurement. Jelent pain and joint wealthing used and measurement. Jelent pain and joint wealthing

were common complaints in 1/8-1/3 of the population ages 6 and over, and rose with age. Prevalence rates for various rheumatic discours are given. Since this study was completed, the Torumsch population has been revamined, and X-vy results will supplement prevail.

data. 15 tables: 7 figures; 38 references. (AEd)
154. MILLLR, F. I.
Childhood morbality and mortality in NewCastle Upon-True, further report on the thousand family study

Mew Bug Med 275 (633-90, 295 Sup de. Thus stely as the goin in 1947, when an infanits hown key through louis or 1947 in NeuCoulte Upon-Tyres were freely found of 1947 in NeuCoulte Upon-Tyres were street by your and 25 offer 15 years of Menty State 18 to the first part and 5 offer de Parey Since Uten, there have no data. So after 15 years and 5 offer de Parey Since Uten, there have no data. So after 15 years and 1941 to 1941

 MITCHELL, S. C. Ago frequencies and disease associations in a number of carduse conditions: An analysis from 143 hospitals. J Chronic Dir 18:1051-8, Oct 65

An analysis of all patients destinaged from 113 hospitals, members of the Commission on Professional and Linguist Assistants alleving with diagnoses of coagnitud host at Assistant alleving with diagnoses of coagnitud host and the commission of th

156. MONTOYE, II. J., RESTEIN, F. II. Tecusisch community health kindy: An investigation of builth and disease in an entire consensativ, J Sport Med 5:127-31, Sep 65.
A health status warvy of Tecusively, Michigan is de-

sexiod. The objectives are to appraise health states and decover nutricular of myndrol facility which will find a prevention in the future, 5500 absolutes two control for the control for the

 MONTOYE, H. J., EPSTEIN, F. H., KJELSBERG, M. O. Relationship between serum cholesterol and body fatness. An epidemiologic study. *Amer J Chit Nats* 18:397-496, Jun 66. 157 MOORE, F. E. Serum cholosterol levels of adults, U.S., 1960-1962, Vital and Health Statistics. Series 11, No. 22, Mar 67.

Stram cholested iree's for the coulant, consustationary ampliation of the U.S., ages 1879, bear on the liciality completion of the U.S., ages 1879, bear on the liciality consistency of the U.S. and th

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 Long-tern observations on fundings of periodical studies of hypertension. Jan Arch Intern Med 12: 583-91. Oct 65. CIAP)

were noted. 7 tables. (AA)

A 4-year statistical study on hypertention was performed on a group of militeral men and results were sinalyzed. Electrocardiograph and 4-year findings were the only onesthat showed a correlation with hypertension althoughortic disc, busin, x-ray, and \*PSI-Test values were tested. 5 tables. 39 reformates. (AEd)

 MORRIS, J. N.
 Capacity and incapacity for work: Some recent history Proc Roy Soc Med 58:821-5, Oct 65.

 Some recent features of memority for work on account.

of certified all hatility (sickness shotsoes) were detended From anniable colifores, there was no reduction of things induced between politic and previous years. Since an applied of sixteen shortest politic and previous years. Since an applied of sixteen shortest, particularly their elsevers. The increase is used coliforal (about 400a) is unmore results. During the 1950s, chrows temporary for work produced by 25-50s. The pattern of modifiedy is changing. Overall, showever, there has been still change, tables 2, 10 miles. The office of the coliforation of 1988 of the 1988 of the

 MORTON, W. E. Alteinde and riscurratio tover in Colorado. Amer J Epidem 83:250-4, May 66.

> Tkee is no evidence in Colorado that altitudes between 3,500 and 10,150 feet directly affect rheumatic fever incidence, inscribity, or previlence, or rheumatic locari discase providence or instrality. 5 tables, 19 references (A20)

 MOSERBECH, L., DREYER, K. Coronary occlusion in Denmark, morbidity and mortality. Acts Med Sound 180:429-40. Det 66.

> Study of 1,084 cases of soute coronary cochasen in medical departments in Denmark, March 1-April 30, 1963, 37% of the males and 49% of the furnible died, Publish increased markedly after age 50, 44% of deaths cour in hospital. The average hospital stay for survivos

was 34 days, for nongrowers, 8 days. Data for all deaths from coroney orchiston in Denmark diaring the 2-month period were start to estimate that 5,700 males and 3,500 females the from this cause annualty. 11 tables, 1 figure, 17 references, (ALG)

162. NASHOLD, R. D. Attempted variety by chemical agents Wittenson Med J 64 327-8 Sen 65

Reports of 4th Inaquist, 1963, and 49 Inospitals, 1964, Wescomer, and Inaquist of 1902 cases in Jonosomery, 723 were reported to be of suscidal Intenti-monthy adolescents under 20 or young guided 50-31, 785 were females: For every death does to acaded, chere are approximately 10 declares with guide 10 and 10

165. MLSON, A. B. Chrose arrives relievate of menting and personal curve forms, C. M. 2017, June 169.
16. The control of the contro

 NELSON, A. B. Provalence of chronic conditions and impairments among residents of narsing and personal care homes, U.S., Nayline, 1964.

tables (AEd)

Visal and Health Startiner, Serice 12, No. 8, Ind 67 Revisitent of muricipa and personal case houses are devended by their health; and twinted chera terroists and certain health reservoir satisfacts to them. Health and related characteristics of the resistents isolate type of characteristics of the resistents isolate type of characteristics of the resistents isolate type of characteristics and suparments, mobility status, and length of stay in the home. Measures of health sortices include time interval none ratificiant tax sun of other in the linear, primary type of grevike provided in the home, murse or marks a basperiosely nature.

6 tables. (AEd)

6.5. NOWAK, R., VOLLBRECHT, A.

On the meldisters of voice and speech disorders in school bendingers.

enginetis of control 21 654-8, 7 Apr 65, (GER)
Report on roulital cusmanulon of 2,865 6-year old indiatem natural guidos, 35% of whom namifered consequences symptoms of rotice and spores distintiones. Of these, 5,0% were stammerers, 57% enforced from natural testings, 50% were forced from natural testings, 50% of the stammerers, 57% enforced from security of the stammer of the s

166. OETTLE, A. G., HIGGINSON, J. Age-questic cancer incidence notes in the South African Banta. Johannesburg, 1953-1955. SAIp. John Sci. 31:21-41, Jul 66. An-inschille infidience of cancer among Johannesburg.

creation Rastra, 1955-55. Jac born standardized to Affician standard propostation and compared with stanlarly approximately flagrest for the 10-cits survey of U.S. depict and Negos), Childhood entered in below compared plantaching resident Bantu made, the standardized mentidaty for cancer of all sites vi 15-bits of U.S. subside and 1/2 bats of U.S. nonwhites. The pattern of near careof enterer encountered during the 5-piral prefelal image? Taxermal used Bantu are also necknowl. 12 tables, 11 references (ASS).

 OKINAKA, S., KUROIWA, Y. Multiple velerous and allied diseases in Japan. Epidemiological and clinical aspects. Prog. Buda Rev. 21, 183-94, 66.

Four effects (peopletilion 20,000-6,000,000), an arious hindineds 43° N. to 33° N), were surreyed for multiple selectors and allfield diseases. The prevalence ratis were about 2.4 per 10,000 population in each city, No difference was found between our hiera and southern effects. The control of the control

168. OLAFSSON, O. Health Surveys.

Nord Med 76:1365-9, 24 Nov 66 General health surveys have been carried out in several countries over the last 10 to 17 years and detailed surveys have shown that 25-30% of the particulants had some amportant disease. In 30-60% of these cases the discuse was at an asymptomatic stage and therefore unrecognized. About 40-50% of the cases had an already known disease, but 50% of them were modecusately treated. The most common conditions found were obesety, cardiovascular diseases (hypertenson), joint and muscle diseases, gastric and billary diseases and antmin. Tumors were present in about 1%, one-half being malignant. Out of 50% of the participants remetted for further investigation, 20% liad some important disease, in most cases tractable. Advantages and deadwantages of health surveys are discussed. (AEd)

 OLIVER, R. M.
 Physique and scrum brods of young London business in relation to inchemic beart disease.
 Brit J Industr Med 24 181-7, Jul 67.

Earlier steelies of white London buston revealed that inchemic lands or expension of conductors is better inchemic heart disease expension of conductors in their contential of the contential o

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 OSBORNE, R. H., DE GEORGE, F. V. Neoplastic diseases in twins: Evidence for per-or pernated factors conditioning concest susceptibility. Concer. 17:1149-54. See 64.

Reports an investigation to determine whether trusts; can adjudy differ turns the suple boar in respect to their can cert systemace, and, if we, which the maphy provide a cert systemace, and, if we, which the maphy provide a respective consistency of human concert. It is consolated that the concert experience of tomas does differ from that of the milles board exclusion of the major for searched of the medium value of the concentration of the major for searched of the medium value of the concentration of the major for search of the major for the concentration of the major for the majo

Childbenning and diabetes mellitus, U.S., 1960-1962

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Visit and Health Starmitte, Strict 13, No. 21, Nov 60. Data are presented on the relation of the masher of pregnancies to dishelves from the Health Examination of the Commission of the Commiss

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An epidemiologic study of Sudbury, Massachusetts, has revelved the dispatricy in repeted presultace sates for early daubstes melliter, When dispatois expused cleared postgrantial blood origers and in absormal places obtained postgrantial blood origers and in absormal places of the control o

possiblecose value gave figures from 8% to 192. Elevation of holds postprantial and postplecose values are com advant to makena actue claim and postplecose values are commercial to the postplecose about mainten alone, indicative of channeal displaces, are considered manningful for their refundancial to increased at the covelerostic disease. 3 figures, 19 references (AED)

 O'SULLIVAN, J. B., WILLIAMS, R. F., MCDONALD, G. W.
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A study of mental illness among women of childbeam age in Hamilton County, Ohro, 1957-58. Age-adjusts. entes for pregnant women were substantially lower than for new mothers. Rates for the first 6 months post partom approximated those for nonchildborring paroni (ever-married) women, but were characterized by an explosure peak in the first month following delivery Obstetric, pennatal, and social factors were studed in parapertum mental fluess pationts and normal mothefor the period 1940-1958. Perionts and controls were signifar in sociocultural indexes such as occupation o spouse, place of rendence, mobility pattern, and levitmany of offspring. Sharp differences were observed in several obstetree and perioatal variables, distinguishnoprepartum from postpartum mental illness patients un both from normal mothers. Recurrences of mental ille. during subsequent pregrancies repeated in the saint calnory as the original attack, prepartum or postporto. implying that the two types of mental illness differ their causes. Gecurrence of a prior mental illness us. sociated with programmy also predisposed to paragraph. brenkdown. Present findings should be extended by cli... cal and experimental severtigations. 6 tables, 1 figs: 11 references. (AEd)

 PAFFENBARGER, R. S. JR., WOLF, P. A., NOTKIN, Carone disease in forest: college students. I. Early poccursors of finish coronary heart disease.
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Of 40,000 male former, college students, 351 were known to have died from coronary heart disease, from

dumps accords and official death coroficates. Two contral subjects per decedent were chosen at random from closer nes of equivalent age, who, according to altimos records, were still alone if processors of death from coroners heart discase were identified heavy exparette smoking, higher levels of blood pressure, excess body weight, storts, is of stature, nonparticipation in athletics, early purental death, only child status, and socionwcholomeal exhansion Each correlated significantly with subsequent death from curously heart disease. Combinations of precursors suggested predictive effects that were about additive. The relative supportance of procurity factors could be assessed in terms of their estimated mortality ratios and mesalence in the study nomilation. Howev casartte smokate was the most detrimental, comburne a buch mortality natio with healt prevalence. Particspatron in athletics was beneficial, presenting a low metality satto and high providence. 13 tables 6 figuses 3 references (AEd)

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Study in mentione and seventy of a unit absumate fever
over time among children in finish. England Rates of
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Topography and or publishes measures of the town of Gress, lab, see described and results of 10 years of air publishes nearboard gaves. A correlation between any publishes and frequency of lang cancer and other respiratory described and frequency of registering described and frequency of registering described and frequency of repursable of the second of t

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The first part of the paper persents a summary discussion of the clusted porture of hyperfeasion. The second part uses delse from warrons studied to allevans herealizary uses delse from warrons studied to allevans herealizary author concludes that the data rangest that environment as the more sumpostant factor in the insendence of high blood persuare. Parmily size, physical work, and obstity herealizary and the summary of the control of the con

 POTGIETER, J. F., FELLINGHAM, S. A., NISSER, M. L. Incidence of nutritional deflowing discress among the Binits and Colored populations in South Africa as reflected by the results of a questionnaire survey. SAF Med A 03:040-9, 18 Jun 66.

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   Un Mrsf Counts 94: 442-8, Apr 65, (FR)
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  Epidemiological studies of blood pressure in Bulentin.

Cor Vest 8 1-9, 66 14,625 inhabitants of Bulgaria were checked for blood pressure by 60 practitioners. Each measurement was repeated 9 times, and the mean, the systolac-disstolac and ruise pressures registered. Women under 40 years of age showed lower rates than men of the same age. Blood pressure was higher for women in rural than in artists areas (except for ages 20-29). Single men led lower pressure than married men; single women higher for ages 30-39 and lower for ages 20-29 than married women, Laborers had lower pressure than did persons in other occupations. Smoking had no effect on blood pressure, Blood pressure was higher in women in climacteric groups, and in those from a family with a lastory of hypertonsion. Blood pressure rose with body weight. 2 tables, 17 reforenous. (AEd)

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A cold season peak of occurrence of surcoidoxis is shown by tests in Finiand, it is concluded that this peak is compatible with the time that secondious is an infectious disease speed by the respiratory route. 5 figures. 34 references, (AFA)  QUINN, R. W., DOWNEY, F. M., FEDERSPIEL, C. F. The incidence of rheumatic fover in metropolitan Nusliwile, 1963-65.
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In a survey of the mosteness of risemattic fover in Melenian Marchiell, 1954-52, 3 times a survey casts were brighten Marchiell, 1954-52, 3 times a survey cast were offerated in sealing sealing of the most increase long 17,000, 5 decessed immedere varies long 17,000, 5 decessed immedere varies long 17,000, 5 decessed in the sealing sealing to the sealing sealing sealing the sealing se

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19 Intumate families, composed of 32 Index rhousests and 66 non-tituum to individually, and 17 non-rhousests families, composed of 93 controls, contributed a test of 7,556 person-contrik\* expenses to the tasky, 1957-63, during widels 2, 813 outbree were taken. The lines disposed to the control of the cont

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Summary of the Inhardral sevolution, objectives, and methods of suboy of caudiocomplexity and offste insuesses expensions of U.Z. residents born there, in britist, and in successions of U.Z. residents born there, in britist, and in substitute of the control of

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A survey, using standardized extendention beclangue, of 67 scan goal 6-50 employed a notor which others in the General Post Office, shows prevalences for: again, 46; bitchery of possible indertice, 36; and alteral times claudication, 28. When differences in physique, as indicated by weight, are taken into account, the relief and excess in thood pressure of nonenexes over pretent seachers becomes insignificant but the higher level in one working in more rural areas persists. Symptons and ECC changes, indicating incidents, for a sessection when

elevation of blood pressure more than with increased weight. These findings and the incidental incovering of some across careliovascular disorders are discussed in relation to the fittate role of such surveys in preventive incidence. 3 tables. I figure 19 references (AFd)

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tions

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In Canada 15,000 paramest die from cerebral apoplexy each year. 150 etch mar eige 45-45. Poublably 25 of serios parameter dei mar eige 45-55. Poublably 25 ost more descriptions are abbelededed until the stroke best more descriptions of the serios of the serios parameter dei material period and metallications article patients in the articular contents 101 were possible parameter. 150 etc. 150 etc.

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Epideanology of gastrointestand cancers in Scandinavia.
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 RIPKA, O., SRR, V.
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An epistemiological investigation of hypertensions in 9,000 homelmoid throughood Czechioolovskii, illocal pressure rises with age, beginning at age 25 in men and 15 in women. High theolog pressure was associated within ages over 44, professional occupations, heavier weight, relatives of hypertensives or athereoelecetics, forman smokes, women of several prognancies. I tables. 9 figures. 7 references. (AEG)

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Vital and Health Statistics, Series 11, No. 3, Jun 64, Medith Evandestian Survey results from testing visual actuty show that among the U.S. civilian, noninstitutional population and 18-79 years: Over 1/2 lave normal or better distance vision without correction and more than 3/4 with whatever refraction they were using at the time of the survey. Near vision tends to more deficient then distance vision, because of the physiological effects of neite on the normal eye. Men have better unaided vition than women at both distance and near, Visual posity declines with see from about 45 years on. with the percentage of men with normal or better vision exceeding women throughout the age range. Regression with arc starts a little earlier with near than unth distance vision. No consistent racial differences were found in the provilence of normal or better unsided vision either at distance or near for men or women throughout the age range. However, corrected near and distance aculties were significantly better for white men and women than for Negro men and women. 8 tables.

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Bipocular central visual acuity findings for U.S. adults by race, region, area of residence, education, income, occupation, and industry as determined from the Health Examinution Survey findings for adults, ages 18-79. Negro adults had somewhat better acusty without glasses, but with their usual correction, the proportion of white adnity testing 20/20 (14/14 at near) or better was murkedly greater than for Negroes. A positive association was found between the visual acuity of 20/20 or better and educational level and family meours, both reflecting the age gradient. 12 tables. (AEd)

#### 191. ROBERTS, J

(AEd)

Westst by heatht and age of adults, U.S., 1960-1962 Fini and Health Statistics Series 11, No. 14, May 66. Heatht-weight data are provided for regles and females. ares 18-79, from the Health Examination Survey, Comnatison is made with 3 studies. American men range in average weight from 146 His, at 62 inches in liquid to

190 lbs. at 73 inches, for women the range is 129 lbs at 58 mehrs to 157 lbs. at 67 inches 21 tables. (AEd) 192. ROBERTS, J., BAYLISS, D. Hearing levels of adults, by race, region, and area of revidence, 11.S., 1960-1962 Vital and Health Statistics, Sense 11, No. 26, Sep 67.

> Data on the hearing threshold levels of American adults by race, region, and area of residence from the Health Examination Survey for adults ages 18-79. Findings are limited to those for the "better" our and principally to trends observable at the extremes of the acusty rangethose with better than "normal" bearing (thresholds of -5 decibels or more below audiometric zero) and those with presumably some bearing handscap (thresholds above 15 decibels). Better than "normal" hearing was found to be more prevalent among Negro than white adults. No stally distinct pattern of differences in rates for impaired bearing was observed among the regions. Companions with previous hearing surveys in this country which contained data by race, region, or area of resdence are included. 12 tables. (AEd)

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Vital and Health Statistics Seron 11, No 15, Jun 66, Prevalence of osteogrificitis among American adults, ages 18-79, based on X-rays of hands and feet obtained in the Health Evantination Survey Data by see, sex, race, region, and seventy of the disease are shown. Standards for the diagnostic enteria, rating methods, and the content of the examination are discussed. 37 out of every 100 persons have an osteographistic condition in which at least the hands and feet are involved. Prevulance increases steadily with advancing age to 85% by age 75. Under age 45 nearly all cases are mild. By 75, moderate and severe cases are found as frequently as mild. Under see 45, men are more frequently affected than women but after see 54 resvalence amone women is exester. Comparison is made with other surveys 9 tables.

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Prequency, equip, and pupil characteristics related to absence were studied in a suburban Pettsburgh Ingla school, 1957-61 Most absence from school was due to minor morbidity. Respontory disease of apparent infectious etiology was the predominant diness associated with absence. Females and stightly higher sick absence rates in almost all categories than males. Half of the xick abstraces necessitated confinement in bed with about 1/5 requiring a physician. There was sessonal variation, and a given child tended to repeat his relative frequency of absences in successive years. Pupils with high absence frequency had lower academic performance, lower rates of participation in school activities, higher drop-out, and more visits to the school nurse It is suggested that high absence frequency in many instances indicates general social maladoptation and that surveillance of absence frequency by school health personnel may be effective means for identifying "problem children." 12 tables. 7 figures References, (AEd)

ROSEN, S. Hearing studies in selected urban and rural population. Treng NY Acad Sci 29:9-21, Nov 66.

Studies of chojesterol levels, coronary heart disease, and otherosclerous amone the Mahaan tribe in southeast Sudan discovered that the diet of these people keeps them in excellent physical condition, with no signs of these diseases, and excellent hearing. Experiments were conducted at 2 mental hospitals in Helsinki with one of the highest fat diets in the world. In one hospital, patients' duets were changed to nou-fat food, and they showed less coronary heart disease, less atheroselerosis, lower cholesterol level, and better bearing than did patients in the control hospital which continued on the usual Franch diet. The author claims diet has more offeet on bearing than noise. A dietary regime diminishing and maintaining a normal blood cholesterol level should begin with children 3 tables, 13 figures, 14 references (Fd)

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> 3 subsamples of 251 cervical earcer patients and 251 matching controls were explored for possible heritability of cervical causer Results show that risk of corvical cancer as a site-specific lesion appears uninfluenced by strong herstability, however, sunformity of trend and result in all 3 subsamples confirms previous findings of significantly heavy excesses of skin cancer in the kindred of cersical cancer patients. All samples were from the Kaiser Foundation Hospitals. 22 tables 5 figures 14 references. (AEd)

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An analyse of northily data concerning nortic and perspheral affectoriseous his recorded an association such aga, and, for norte neutryine, an excess mortality aming males. See and age differences we denoted, an evaluation is raided of factors possibly successed with the donate including colonic groups; colonistrate, date, queries unokeng, canors, and disorders of bland coughilities. Suggestions are under gengland the eloselipment of diagnostic eriters, multiple cause coding of donts, and morthality andice, 6 tables. So fereferences (AEI)

 SAGEN, L. Length of convalencement after sungery, U.S., July 1960-June 1961.
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Statusies on the length of convincence after toeselectomy, appendectomy, herman appendectomy, herman appendent hermacrholdectomy, hysterectomy, and delivery other than Coarrent, by ago, sex, sound activity, and family mount. Based on data collected in the Itealth Inserview Survey. 18 tables. (AA)

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4,399 Eckinos Irung, in 3 different areas of Generalization were surveyed with the sides of discharge grevatence of diabetes mellites: 24 were found to have postprantal promorats. In 15 or flexes, a floring blood singst or a series of the s

 SANTRUCEK, M., VACEK, M. Epidemiological studies of the ischemic heart discose II. Critical evaluation of methods and results. Cest Zilvas 14:419-27. Aug 66.

Altestano is dinawa to the smoor superinance of general methodity and noncetality rates for investigation of submission heart diseases (HID). The methods of surveingtion are calculated and the shortcomings of plasmost very are department. Valuerable groups, proceptionals recognition of the results of these cylindrometric and very are department. Valuerable groups, proceptionals recognition of the process of the process of the prosent of the process of the process of the prosent of the process of the process of the prosent of the process of the process of the prosent of the process of the process of the prosent of the process of the process of the prosent of the process of the process of the prosent of the process of the process of the prosent of the process of the process of the proting of the process of the process of the proting of the process of the process of the proting of the process of the process of the proting of the process of the process of the proting of the process of the process of the proting of the process of the process of the proting of the process of the process of the protent of the process of the process of the protent of the process of the process of the process of the protent of the process of the process of the process of the protent of the process of the process of the process of the protent of the process of the process of the process of the protent of the process of the process of the process of the protent of the process of the process of the process of the protent of the process of the process of the process of the protent of the process of the process of the process of the process of the protent of the process of the process of the process of the process of the protent of the process of the process of the process of the process of the protent of the process of the protent of the process of the process of the process of the process of the protent of the process of

SAXEN, E., HAKAMA, M.
 Cancer incidence in Finland with a note on difficulties in comparing epidemiological data.

 Cancro 19:88-96. 66.

Incidence of tumors collected at the Faunti Cancer Registry for 1960, Problems in companing data among countries include differences in age distributions of the countries and differences in diagnostic techniques, e.g., slow-growing tumors have a greater likelihood of being observed in mast examinations than fast-growing temors. 9 figures, (AEd)

SCHOTTI NI FLD D., HOUDE, R. W.
The changing pattern of cancer morbidity and mortality
and it implications.
Med Clin N. Anne '50 613-30, May 65.

The magalants of the sacree problem to the U.S. as reasonal by modeling and mortality for the version types of nature Downs the last 20 years, speculyoned types of nature Downs the last 20 years, speculyoned 13% for wrones. Held have been been seen of the original problem of the control of the control of the control on the control of the control of the control court and lower death from context of the strength of the control of the control of the control strength of the control of the versa, color, and cony, Normbian base higher more control of the control of the control of the control of the versa of the control of the control of the control of the versa of the control of the versa of the control of the control of the control of the control of the versa of the control of the control of the control of the control of the versa of the control of the control of the control of the control of the versa of the control of the versa of the control of the contr

204. SCHUMAN, L. M.
The epidemiology of thrombo-embolic disorders. A re-

J Chronic Dr. 18:815-45. Aug 65.

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Thrombo-emboh: disorders (exclusive of occebes) and occosary thrombossly were responsible for over 12,000 deaths in 1962. Frequency of specific disorders, age, extrace and time differences are discoved, Definencies in mortifully and morbidity data are noted. 24 tables. 28 references (AEO)

 SCHWEITZER, M. D., GEARING, F. R., PERERA G. A.
 The opidemiology of primary hypertension. Present status

Correst mortality statistics indicate that hypertense and hypertensive heart disease account for nearly 10% the deaths attributed to cardiovascular-renal diseases. is estimated that hypertonsion may be reported in few. than 20% of the deaths in which it is known to th attending physician, Surveys among solected groups sog gost that 5-25% of the adult population is affected with primary hypertension. It is more common amou women, but more severe in men. Pranary hypertensic appears to be more prevalent in highly inclustrialized r grous than in industrially underdeveloped ones, number of factors including herodity, diet (particular electrolyte intake), obesity, occupation, and psychlogical and social characteristics are thought to be assocusted with this disease. Changes in death certification and multiple cause coding could improve the usefulness of mortality statistics for epidemiological studies. A major wood in hyportension research is the conduct of long-torm community and family studies. 2 tables 47 references. (AEd)

 SEAL, S. C. Integrated general health survey in India. WHO Pub Health Pap 27:163-80, 65. STAPERO S. STRAN, P. VENLE L. Lade attent of periodic bream cancer septembre with manito gight Mathed-less and cash observations. ALST 1 195 731-5 25 Leb 66

Partilled breast cancer secrency with marmingraphy and along it examination is being evaluated to determine its the problems breat cancer mortality among without s note of somes 4064 years enrolled in the Health to across Plan of Gocater New York are randomly asand to study and control resons, such at which will the hypothesis that screening leads to earlier detection of Intest safeers than is ordinardy experienced and test insommers by contributes significantly to detecto a The crucial question is whether mortality from treast concer is lowered because of the screening, and I have findings on this poor will require at least 5 .. at. of followup 5 tables 2 figures 13 peferonces (Mid)

#### SINGLMATSU I Eredentedepolal consultration on the changes of tuber-

Co. J. Parker, 13 Suppl 1-26, Dec 66 Data from a survey in a small district, and mortingly

. Ilicated data on towns and vellages, prefectures, and contics were studied in an epidemiological consideration of the charges in tuberculous incidence. The rapid discuse in mortality for tuberculoss in recent years sugand that morbithly be studied but lack of morbidate data recoverated the use of mortality statistics, Factors tel ted to chances in the picture of tuberculous were s. cottgated. In addition to the strong influence of chemotherapy, many environmental factors and the popularration of counter measures against tuberculosis are related in various degrees 32 tables 18 figures 11 references (AEd) MRGEMATSU, L. KATO, L

frands in subcreubous and its relationship with Jung since from the epidemiological viewnomi Sep / Nurs 19-26-37, Apr 67 (JAP) No Leglish summary

SHIMKIN, N. B. I puterniology of cancer spatial-temporal aggregation 1 and Rev 25 1363-74, Sep 65

trata are presented and discussed on ago-adjusted cancer mortality in 34 countries by sex and site. The distribufirm of conter by Letters such as environment, season. slimite, diet, sucmecentaine class, occupational groups, ed in relation to the distribution of other diseases to discussed 6 tables 108 references (Fd)

#### SHVERS, W. L. Disease patterns among southwestern Indians. Fub Health Rep 81:1035-83, Dec. 66

urcs, 30 references (AEd)

In 1455 the Division of Indian Health was made responoffic for health case of most American Indians and Markett natives, 7 Indian Health areas were set up. The Phoenix area includes all Indian reservations (except Natago) in Arasona, Colorado, Nevada, and Utah, A trimber of discuses are discussed and among them the fellowing were found to be a problem in the area disbeles, gastro, cancer, imberculoso, trachema, sicohobson, dictary deficiency, Lacence's curbose, bleeding esophopeal varices, injuries and traumatic deaths, 6 fig211. SMITH, J. M., KNOWLER, L. A. Englemotory of asthma and allegue thinitis. I, to a rural irea Amer Rev Reso Dix 92 16-30, Jul 65

Study of asthma and allegge rhingers in 1,760 rural lamdies. The fundames support those of a merious climical study of 611 naturate with these diseases. There is evidence of an increased risk of developing these discuses when a normal person without affertie buckermind mannes an affected secure. The data are compatible with the possibility that some transmissible factor may influence the development of the necessar kind of allerne personne observed in people with the so-called "afterpre digitiess." The endence is not supposted as proof of nonheredition transmission of these diseases, but as a basis for considcration of other possibilities. 8 tables. 2 figures. 12 references. (AEd)

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Four relationships between eardinversellar disease and factors of sociocultural change and meongraity are sugsested. Modern or urban and industrialized settings have a higher incidence of hypertension or parentary heart discase than traditional or rural and nonindustrialized settings. Migrants have a higher incidence of discuse, both at place of ongo and at destination, than nonmitrants. Persons who are occupationally, residentially, and socially mobile within a culture have a greater frequency of disease than the nonmobile People who change cultural settings and do not unapt to the new softing have a definite discuse exposure compared with

#### those who do adapt 26 references (AEd) 948 SODA, T. A nationwide supple morbidity survey in January WHO Public Health Pap 27 181-96, 65.

213. STALLONES, R. A. Epidemiology of corebrovacular disease. A review,

J Chronic Dis 18 859-72, Aug 65 Review of data on geographic differences in ecrebrovascular mortality shows large variations between different countries, between different areas of the same country, and from one time to another. Geographic distributions of copebral vascular disease deaths do not resemble those of afterostlerotic heart dreave. Similarly, the risk of death from cerebral vascular disease varies by individual characteristics such as age, sex, and race, and this is not clearly explained by the occurrence of atherosclerosis or hypertension. Mortality data are impaired not only by the lack of convestent discuss definitions and death registration practices but also by the difficulty in separation stroke dearbs into more specific subcategories. Accurate disquasis of ecrobral thrombous and cerebral heusonriume should show these custes to be distributed more nearly like those of artenoselerotic heart disease and hypertension, respectively. Population studies of morbishty due to stroke are so few that meaningful comparison with moutality distributions is not possible, 3 tables. 6 figures. 26 references. (AEd)

214. STAMLER, I.

Atheresticratic coronary heart disease. The major challenge to contemporary public health and preventive med-Coun Med 28.625-92. Sep 64.

These who recover from an aente episode of coronary disease in middle age have a subsequent mortality risk several times greater than the general population of agosex matched individuals, Key coronary risk factors are examined, i.e., high serum cholosterol, high blood prevsure, heavy expirette smoking, overweight, lack of evercase Prevention of coronary disease would seem to require an effort to assess risk and detect persons with asymptomatic subclinical coronary disease, particularly through use of periodic examinations including biochemical tests, electrocardingrams, etc. 13 tables 16 funires. References, (AEd)

438. SYAMLER, J., FIELDS, C., ANDELMAN, S. L. Epidemiology of cancer of the corvix, I. The dimensions of the problem: mortality and morbidity from concer of the cervis. Amey J Public Health 57:791-803, May 1967.

215. STEINITZ, R. Palmonary tuberculosis and earcinoms of the lune, A survey from two population-based disease registers.

Amer Rev Resp Dis 92:758-66, Nov 65, The risk of tuberculosis patients developing pulmonary concer was investigated epidemiologically in Israel, using information from 2 population-based decase registers and other countrywide data. The risk scened to be of the same magnitude for TB rationts as for heavy smokers in males and to be even greater in females. Results from both morbidity and mortality studies were consistent in demonstrating that male suberculous patients had a 5-fold risk (and females a 10-fold risk) of developing pulmonary cancer. Further studies are needed, 8 tables, 21 references, (AEd)

216. STEINMANN, B.

Enidemiology of montexy Schwelz Med 19schr 96:1733-60, 31 Dec 66.

Morbidity and mortality of apoplexy and the pathogenic risk factors of the disease are discussed. The morbidity of souts stocke as 1.5% of the assertd normation, and in the U.S. and Western Europe apoptoxy represents 13-15% of the causes of death. Among the risk factors, hypertension and arteriosclerotic heart diseases play a prominent role in the occurrence of cerebral arteriosclerovis and the causuation of stroke, Rapid homodynamic change associated with a drop in blood pressure, and perchasi ischemic disease, cholestorol, and diabetes do not play as important a pathogenic role (although hypercholesteroleman may increase the risk) in anontexy as in myocardiol infarction. 9 tables. 73 refecences. (AEd)

217. STERLING, T. D., PHAIR, J. J., POLLACK, S. V. Urfian morbidity and air polletion, A first report. Arch Environ Health (Chicago) 13:158-70 Contd, Aug. 66.

> The relationship between level of pollutants in air and incidence of Illness was investigated at the community level for several air pollutants and for a number of discases. Hospital admission rates were used as an index of

intensity of diress. The fluctuation of hospital admissons showed a very definite preference for certain days of the week and a marked avoidance of others. Since the level of various pollutants is also subject to the influence of the day of the week, due to industrial schedules, driving patterns, etc., the overall effect appeared to be one of concellation so that the net correlation between "pollution level" and "health" was effectively zero. Validity of the analyses was insured by correcting for the effect of day of the week to hospital admission prior to examination for possible effects of pollutant levels. Once this was done correlations between fluctuations in air pollotion and morbidity were extremely high and convincing for relevant disease enterories. 3 tables, 16 figures, 8 references, (AEd)

218. STERN, E., LACHENBRUCH, P. A., DIXON, W. J. Concer of the aterine cervis, II. A Isometric approach to

Cancer 20.190-201, Feb 67.

Analysis of environmental, social, and psysplonical fortors and cancer of the cervix for individuals voluntarily attending a cancer detection center 4 groups were studied: well controls, those with the cancer procurage (dysplasia of the cervix), those with pre-invasive concerof the cervix, and those with invasive stages of the disease, Endocrine marker, age at marriage, marital events, and religion were most effective in predicting cureer status but are relatively of little value in separating stages of the discuso. A different set of variables predicts engogr among the controls, and discriminates between stages of concer. Pre-menopausal energied wemen with cancer of the cervix are found to be older, physiologically, that the controls, Family history of concer is of some in portates in discrimunating between women at preinvasive and invasive stages of cancer of the cervix, me gesting a genetic factor. 9 tables. 2 ruferences. (AEd)

219. STOKES, J., 3rd., BASSET, D. R., ROSENBLATT, G. Coronary discase and hypertension in Hawail, sucust diseribution in 1.167 men. Havasii Mryl J 25: 235-40, Jan-Feb 66.

Amount 1.162 men working for the City and County of Honolule or the Hawelian Telephone Company, 163 were found by screening to have reportable electroenreliographic findings. Six previously unrecognized myocardial inferctions were found alone with 15 previewsly unrecognized instances of left ventricular hyper trophy. Hawsisons had nearly twice the prevalence of hypertension found in Japanese and Caucadans, Chinese had least of all. 7 tables. (AA)

2204 STOUDT, H. W., DAMON, A., MCFARLAND, R. Weight, height, and selected body dimensions of adults U.S., 1960-62

Vital and Health Statistics, Series 11, No. 8, Jun 65. Findings from the Health Examination Survey for adults nges 18-79, by ago for men and women on weight, height, greet and normal sitting height, knot and rophited height, elbow rost and thigh elegrance height, buttork-knee and buttock-poplited length, olbow-tosibow breadth, and sent breadth. Measurement techniques are described. Comparisons are made with findugs from provious surveys in the U.S. and Casada, The influence of ago, race, ethnicity, socioeconomic status, civilian and military status, and measuring techniques noted in previous studies are discussed, 16 tables (AEd)

 SUAREZ, R. M., SUAREZ, R. M., JR. Morbidity and mortality in aged Prorto Ricans. J. Amer. Genut. Soc. 13, 805-14, Sup. 65.

A study was made of 356 hospital case records, 242 uscossy records, and deaths and the death rate for 1962 on Paceto Rican people 80 years of ago and older. Discases of the cardiovascular system were the most freoverst cause of morbulary and mortality. The viscular system (including that of the heart, brain, and kidneys) appeared involved in nearly 100% of the autopoles. Diseases of the respiratory system occupied 4th place as a cause of illness and 5th place as a cause of death. Cancer of the prostate gland was the most common malignant lesion, followed closely by concer of the stemach and of the pancreas. Not only chuscilly, but also at autopsy, it was often difficult to decide which nathologic process use the cause of death. A multiplicity of lesions is the rule in this age group, I table, I figure, 2 references (AEd)

### 222. SUTTON G. F

Hospitalization in the live year of life, U.S., 1961.
Vital and Health Stansucs. Series 22, No. 1, Sep 65.

A survey of hospitals and resident institutions opportuing inpationt core during the last 12 months of life. Statuties show whether core was received in the last year of life in short-stay hospitals or in resident institutions, and the differences in likelihood of care associated with age. sex, color, residence, and cause of death, Dafferences in likelihood of care varied from more than 9 in 10 persons, who died of certain diseases of early infancy, constnitud realformations, and suphyment acophisms, to less than half of those who died from accidents. Females and white persons more often received care in the last year of bfe than did males and poswhite persons, Infants were most blody to have been hogutuhized, but after age 1 the throffteed increases with age, is lower in metropolitan areas thus elsewhere, and lower in the South than in other regions. 16 inbles. (AEd)

## 23. SYME, S. L. Sectological approach to the epotentiology of cerebro-

Public Health Housey 76,579-3, 66.
Stondaged research in conclusives studies in surface and incident working the accusation, but a searcy of occidenced scheme concentrations, and looded pressure Newly as a susmed ariserus tocouse of field involvement is the athereness of the concentration of the concen

### SYNE, S. L., HYMAN, M. M., ENTERLINE, P. E. Galteral mobility and the occurrence of coronary heart ducase. J. Health Hum. Behav. 6:178-89, Winter 65.

A study of coronary heart disease (CHD) was carried out in 1957 in an area of North Dakota on white men ages 35 and over. Comparisons were under for 203 coronary cases and 406 age matched controls. Independently of such factors as diet, eggestet amoking, blood pressure, relative body weight, and panently longeryth, orthan sociocitizual factors were found to be related to CHD. Racking of dobusered to expected cases were higher for all tends mobility. For example, ration were allowed the higher among white collar workers of runal background, Cultural mobility, a concept common to all the forms of mobility, if found to be positively associated from self-collar vorkers.

#### 225 SYRIER, A. H. Final report on a study of the social consequences of brouchful arthma.

Alling Asthinic (Leipzig) 12 53-60, 66. (GER)

An inquiry in arthreatics and normals about their social circumstances is discussed. The influence of this illness on their aducation, work, social life, etc. may be important. 8 stables. 20 references. (AEB)

#### TAKEDA, K., KOBAYASHI, H., MIYASHITA, T. Reliability of cancer diagnosis. Sinkle Igake 20:3282-9, Dec 65, (IAP)

Reliability of diagnosts of cancer was checked for 1,122 autropy case, 540-52, 1954-62, dron all instellations autropy case, 540-52, 1954-62, dron all methods and heps hospitals in Japan. These was poster reliability in diagnosing cancer of the strakes or agains (e.g., becox, intens, and rectum) than of the dopt organs (e.g., becox, intens, and rectum) than of the dopt organs (e.g., liver, parters 3D. Junity in 16 10 years of observation, reliability of diagnosis has been inservating outpellify of the dopt organs. (Pero Interorph Medico, Suc 16, Vol 15, No 11,

## TAUBE, C. A. Characteristics of patients in mental loogstals, U.S., April-June 1963. Vital and Health Statistics, Series 12, No. 3, Dec 65.

Statistics on pathons in iongstay mental hospituls by age, color, sas, lough of fasy, and certain indices of physical and senantial disability. The data was colorized from a potability simple of mental inopituls in the U.S. as whole platelist stripes aroung of 30 agy or oncor. I see which platelist stripes aroung of 30 agy or oncor. I see a whole platelist stripes aroung of 30 agy or oncor. I see a second stripes around the second stripes are 130 and 10 agy of 100 femilies, and 20% of the pathons were normalize. 9 tables, (AEG)

#### TAUBER, J. B., CIOCCO, A. Heart disease mong industrist workers. J Occup Med 8:317-25, Jun 66.

3,359 healthy male consularied employees of a seed plant were observed for an average of 3,5 years (1956-1958), 25 over 40 years of age sequired heart disease annually—co-cluif were myocacilid infarctions. Near with high disease losses per season and weight-beight natio demonstrated a higher risk in ocquiring the disease. 11 tables, 8 references, (AEd)

#### TAYLOR, P. J. Individual variations in suckness absence. Brit J Industr Med 24: 169-77, Jul 67.

Analysis of sucords of sick absence, (I day or more) at a refinery for over 20 years. Sickness spells and calendar

days of absence have a negative biscential distribution resembling the distribution of industrial accadents fines described almost 56 years ago. This pattern is not related to occupation or to length of service. Lateness and absenteems for, reasons other than sickness or hobdays also follow this pattern. 11 lables. 2 figures. 22 references. (AEO).

#### 230 TERRIS, M., CHAVES, A. D. An epidemiologic titidy of sircoidosis Amer Rev. Resp. Div 94 50-5, Jul 66.

A usely of 240 fissue confirmed cases of sucodoss in New Yeek City, by exp, education and place of birth and an equal sumber of matelied TB and non-TB control subjects fadde to demonstrate that past resolvent subjects fadde to demonstrate that past resolvent in the control of the control of the control of the subjects fadde set of the control of the control in the control of the control of the control of the accordance of the control of the control of the accordance of the control of the control

 THOMAS, H. E., JR., KANNEL, W. B., DAWBER, T. R. Cholesterol-phospholipid ratio in the prediction of coronary heart disease. The Framingham study. *New Res J. Mod.* 24: 7013-5. 21 Mar. 66.

The Exemplant study van bagan in 1949 to study be opposed professordery of corrown brand desices (2010) is a ris-dem unique of the populstices, 2,327 previous limitative control of the populstices, 2,327 previous limitative control of the control

TIBBI, IN, G.
 High blood pressure in men aged 50-a population study
of men horu in 1913.

Acta Med Scand Sunni 470: 1-84, 67. Study of high blood pressure in a random sample of RSS 50-year old mon all born in the same year and selected from an urban population in a rapidly changing industrial society. All degrees of the discuss state were considered from the early to the molument phase. Two siens were recorded as manifestations of hypertensive diseasefocal narrowings of arterioles and general attenuation of arteriolos. There was close agreement between the mean values of blood pressure in this study and in studies made in other places around the world suggesting that environmental factors are of secondary importance. The sample was divided into groups based on blood pressure readings and compared for obesity, focal narrowings in the arterioles of the eye-ground, roual disease, infectious diseases, heart volume, hpkls, uno acid, fisting blood sugar, smoking liabits, and sociocconomic factors. 50 tables. 4 figures. 168 references. (Ed)

 TIRNAVEANU, B.
 Evolution of the sectality and secretility of cardovascular decays in the Remantan People? Republic.

 Stud Centul Med Intern 5: 287-96, 64. (RUM) 445 TIRNAVEANU, B. Mortality and incobality canvel by vascular levious affecting the central nervous system as the Rumanian Socialist Republic Methodoris (Burni 1), 1343-50, Jul-Aug 66, (RUM)

 TOM, B., BROWN, B., CHANG, R. Pepta: ubor disease and temperature changes in Hawaii. Amer J Med Sec 250: 635-42, Dec 65.

No evidence of a relationship between changes in temperature and weather and the residunce of hearintraging utter wer found as a study of 425 peptic there exists 1958-1952, at Honoichia, Hawnis A necessari searching of higher mendance in February-Martin, May, and October-Normbur was found despite a relatively friend temperature convenient A sumlar study made in Philadelphia vincluided, 51 tables 12 references, rAEG.

234 TRAUGER, D. A. The rolative rate of developing tuberculosis. Amer J Public Health 56 428-33, Mar 66.

> It appears that turborealous is still a public health problem, Appeaped in this suggest that the nik of new infection linerases with top. Men are more susceptible than women and percentere is higher in large, cremelat seas. Although vaccines and choscoprophysavis are helpful, an unany may not be readed Improvement in thing conditions and better ded (bost stock perhaps would be as cool as income) would left in solve the needbest in some

235. TROMP, S. W.

A tontaine sindy of the geographical distribution of submatter potent on the Netherlands during 1960. Acts Alex (Robertson) 22 105-11, 67.

To collect data on becombail saltura, all practitioners as promotes of the Rotherlands were sent a clenular as Sprinaber 1961. They were arked to promie the total masked or admission patients by gain des. Reported authorities per municipolisty were plotted on a numaicipolisty step of the country. In almost all cases, saltura is lighten in make than in fernals: Grographics and age effectively only of the country. In almost the section of a distinction of an obstacle see a down. Further totaldist and the country of the country

 TRUSTT, J., CORNFIELD, J., KANNEL, W. A swallstrends analysis of the risk of coronary heart diease in Francingham.
 J. Chromac Dez 20:511-24, Jul. 67.

 UEDA, U., MURAO, S., KURDIWA, A Characteristics of myocardial infanct in the Japane with spoul reference to a comparison with Europea and Americans. Jun J. Chin Med. 23:1203-10. Sep. 65. (LAP) No. Rud.

winemary.

237. UYS, C. J.

National disease patterns in South Africa.

8.46 Mod July 159-65, 19 Peb 66.

Diseases peculiar to, or constantly occurring in, South Africa are referred to as "mattored diseases". Geographise and clemate factors, except in skin censor in whites, do not supear to be significant. Many diseases are desembed.

kwashiatkar, arrhous, adetous, etc. due to dietary futors and malnutration which are above all else responsible for determining morbidity, mortality, and the general disease pattern. Even in molecoast disease in the Banto. deficiency in diet is an important causal factor. Mortality attributable to alcoholium and local drinking linbuts nucles surprising proportions, reflected more in whites as carrhous and panereatitis in the Cape Colored, and of acquired perphyria in the Cape Colored and the Bantu Siderosis incidence is also high among the Bantu and should be grouped in this category. Indirectly, the effect of malautration is noticeable, though not measurable, in almost all of the "national diseases" 101 referemes (AEd)

238. VAZQUEZ ROCHA, M., VELASCO LOMBARDINI, R. Social aspects of coronary disease in Urusuay. Strole 15 38-44, Jan-Dec 64 (SP)

The proportion of persons suffering from diseases dougnated at arteriosclerosis and coronary disease was 1,600 males and 1,070 females per 1,00,000 population based on 26,134 persons examined in Umgaay, 1957-58, 233 males and 130 females had lessons and an estimated 1,600 such persons die anguelly. Death rates for all causes and the proportion due to cardiovascular discuse see given for 1944-1959. 5 tables 6 references. (Ed)

239 VUYLSTEEK, K, BEERENS, I., STEVENS, J. Results of electrocardiographic, radiographic and biometric studies in the scope of an epidemiological study in a pon-selected population T Soc Geneek 43-558-65, 13 Aug 65. (DUT)

2,246 subjects in the Netherlands, 40 years of age or older, were examined in an epidemiological investigation. Results of radiophotography, electrocardiography and brometrics are discussed Toses seem to indicate that although there is an important difference in the mortality by coronary pathology, electrocardiographic prevalence is the same for the two seves in the studied group. Statistical usalysis eliminates the hypothesis that obesity would have any correlation with the prevalence of plactrocardiographic coronary pathology in the 40-69 year age group Findings relate to prevalence not to mortality of coronary discise. 12 tables, 21 references. (AEd)

451 WALLACE, D. C. A study of the natural history of cerebral vascular du-

Med J Aust 1:905, 21 Jan 67.

240 WALLER, J. A. Chronic medical conditions and traffic safety: roview of the California expenence. New Fine J Med 273.1413-20, 23 Dec 65

Records of 2.672 people with known chronic medical conditions were compared with those of 922 drivers renowing their licenses not known to have circuit medical conditions Drivers with diabetes, epilepsy, cardiovascular disease, alcoholism, and mental sline's averaged twice as mony accidents and 1,3-1.8 times as many violations as the comparison group on an ago-adjusted basis, Drivers convected for illegal use of drugs averaged 1.8 times as many violations but no more accidents than the comparison group. Results of the study suggest that the persont emphasis on epilepsy as the major medical handicap to safe driving is too narrow an approach. However,

couting obvious examinations for all dissert, as attenmed in Pennsylvania, are also madequate 8 tables I figure, 14 references (AEd)

241 WATERSTON, J. F. Morbidity in a country practice

J Coll Gov Pract 10 18-39, bil 65, A study of morbidity in a country practice in Scotland for 1962. The practice consists of 2,627 National Health

nationis, morely artisan in occupation, During 1962, the doctor had 18.345 consultations. The ratio of surgery consultations to frome visits was 1.9 to 1. The average number of consultations per day was 66. Each disease meident required an average of 5 consultations. For source patients 11 hours a day, 66 per day allows 10 minutes not patient and does not take account of the time spent on other work in the practice-telephoning. surrory, pathology, letter-writing, and clinical work relating to the practice. The evidence supports the general contention that a dimmetron of practice lists is argently required Age-sex data by disease incidence are green, 17 tables 13 figures 3 references, (Ed)

453 WEBER, A Some characteristics of mortality and morbidity in Europa. InHO Public Health Pap 27 131-48, 65

242. WESLEY, A. G., SCRAGG, J. N., RUBIDGE, C. J. The racial incidence of disease in hospital children in

SAIr Med J 41:332-5, 1 Apr 62

A statistical survey of incidence of disease in Indian, African, and white hospitalized children in Durban, 1960-1962. It is shown that the Indian child in Durban is nguificantly more susceptible to rhoumatic fever, acute nephritis, and nephrotic syndrome than other racial groups. Similarly, the African child has relatively high incidence of amelious and CCF complicating thoumstic fever and neste nephritis. The only conditions in which steadence in white children seemed to exceed that of other groups were those of accidental porsoning and aveptic (viral) meansptis. 7 tables. 3 figures. 19 referpages. (AEd)

243. WEST, K. M., KALBFLEISCH, J. M. Giscose telerance, nutrition, and dispetes, in Uruguay, Venezuela, Malaya, and East Pakestan,

Diebeter 15:9-18, Jan 66. Glacose tolerance tests were made in 4 countries. In the tested subjects over 30 years of ago, the prevalence of "diabetes" was loghest in Venezuela, 7.3%, Uruguay, 6.9%, Malaya, 3.5% and lowest in East Pakistan, 1.5%. The percent of calories in the diet derived from fat was anniarly distributed, i.e. highest in Uraguay, 33%, Venezuela, 24%, Malaya, 21%, and lowest in East Pakistan, 7%. Carbohydrates are consumed more often in Past Pakistan than in the other countries. In Venezuela and East Pakistan, prevalence was twice as high among women as among men but in Malaya the roverse was found. In Urugusy, 31% or more were "obese", In Venezuela and Urugnay there was an association between the prevalence of diabetes and both parity and a history of large babies, 3 tables, 4 figures, 36 references. (A.E.n.

cacs with lites from indirectal physicians suggested that the regularizon subson may have mixed [67] of all diagnoved male cares. Incodence rates by uge and sea are given. No significant standard patterns were found. Repotration cases were anothered with census files and infraction rates were unalyed or coording to rumpus charactersistic obtained in the census. 20 tables 5 figures 7 references. (ACM)

 WESTLUND, K., NICOLAYSEN, R.
 Strum cholesterol and risk of mortality and morbidity A 3-year followup of 6,886 men.
 Seard J Clin Lab Invest 18 Suppl 87:1-19, 66.

 WILDER, C. S.
 Acute conditions, Incidence and associated disability, U.S., July 1961-June 1962

U.S., July 1961-Pine 1962 Pital and Health Statzutes, Screen 10, No. 1, May 63. Incredence of screen conditions and procused days of redirected activity, bed datability, and time lost from work and school, by age, sax, calciding quarter, readence, and posignible region, Based on the Health Interview Survey. 33 tables (AA)

246 WILDER, C. S. Acute conditions, incidence and associated disability.

nature. 36 tables. (AA)

U.S., July 1952-bare 1963.

Vista and Health Statistics. Series 10, No. 10, Jun 64.

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wave reported the encested. About 588 were requisitory or

247. WILDER, C. S.
Acute conditions, sacidence and associated disability,
U.S., 1991 1963-7-me 1964.
Pital and Health Statestics Series 10, No. 15, Apr 65.
Statistics on the mid-farmer of sewie conditions and asso-

Statustics on the incidence of acute conditions and associated days of restricted activity, bed distability, and time lost from work and school, by age, sox, askendar quarter, residence, and geographic regions. Based on data collected in the Health Interview Survey. 33 tables. (AA)

WILDER, C. S.
 Acute conditions, incidence and associated disability,
 U.S., July 1965-June 1966.

Visit and Heralin Statistics Sames 10, No. 38, Jun 67.

Statistics from the Health Interview Survey on munilandware of saste Binomes and injuries suvolvas suddent statistics and statistics and injuries suvolvas suddent statistics activity, broketsy, and time loss from work and statistics activity, broketsy, and time loss from work and statistics of the same statistics of the same statistics of brokets of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics of same statistics of the same statistics of the same statistics with Instatton of inobility, due to chrosse conditions, by degree of limitation, geographic region, family income, living arrangements, see, and sge. Based on data from the Health Internew Survey. 36 tables (AEd)

250. WILDER, C. S. Chrome condition

Chrome conditions and activity limitation, U.S., July 1961-June 1963 Vital and Health Statistics, Senies 10, No. 17, May 65. Statistics from the Health Interview Survey on prevalence of selected chronic diseases and impairments reported as causing activity limitation distributed by ago, 50%, color, usual activity status, family income, marstal status, and associated bed disability in a year. 12% of the civilian, nonenstitutional population of the U.S. were hauted in activity to some degree due to chronic conditions. 30.6 million chronic conditions were reported as causing limitation. Some of the leading causes were: (1) heart conditions, (2) arthrets and rheumatism, (3) mental and nervous conditions, (4) impainments (except paralysis) of back or spine, (5) impairments (except paralysis and absence) of lower extremities and hips, and (6) hypertension without heart involvement 22 tables. (AEd)

 WILDER, C. S.
 Current estimates from the Health Interview Survey, U.S., July 1962-June 1963.
 Vial and Health Statistics. Sones 16, No. 5, Jan 64.

Provisional estimates of incidence of acute conditions, number of persons reporting one or more chrones conditions, number of petrons injured, hospital discharges, and distribity days by loss and age. Based on data collected in the Health Interview Survey 17 tables. (Alall)

252. WILDER C.S.

Current, estimatos from the Health Interview Survey, U.S., July 1963-30 Junn 1964.

Plast and Health Statistics, Sense 10, No. 13, Out 64.

Provisional estimatos of insidence of expect constituous, number of personas reporting one or more chronic conditions, namely of personas reporting one or more chronic conditions, namely of personas reporting one or more chronic conditions, namely of personas personal, dispublicy dept. momber of physicals mad desiral voits, final-billing dept. momber of physicals mad desiral voits, final-bill meneral success the physicans and desiral voits. Based on data collected in the Health Interview Survey. 21 laddes. Anh.)

253. WILDER, C. S.
Current estimates from the Health Interview Survey.

U.S., July 1964-June 1965.

Price and Heefth Startines. Series 10, No. 25, Nov 65

Provisional statistics from tonuchold interverse on incredence of possile distincts and simpless and supported disability along, percent of certain, nonlessitutional of a contract of the contract of the

254. WILDER, C. S. Disability days, U.S., July 1961-June 1962 Final and Health Statistics Series 10, No. 4, Oct 63

> The disertions disabling effects of illness or many caused an average of 16 days of activity restriction during the year 1961-62 among the civoless population not residue in institutions. Estimates are based on data collected in the Health Interview Survey and given by sex, income, urban-rural residence, occupation, and argual activity status. In most instances, females overneed inocc disability days than did males. Average rumber of restricted activity and bed disability days decreased as tamily income merceses 22 tables, (AEd)

255. WILDER, C. S. Drabitty days, U.S., July 1963-June 1964.

Final and Health Statistics, Series 10, No. 24, Nov 65. Data on short-term drabbing effects of illness or musy in the creiter, nonestrutional population of the U.S. collected in the Health Interview Survey, Included are number of days per person by such variables as age, sex, sendence, geographic region, usual activity status, family income, and employment status. The rate of restricted activity for the average person during the 12-month period was 16,2 days due to acute and chrome lilness and injury. Included in this rate were 6.0 days spent in hed. Currently employed persons, on the average, were absent from work 5.5 days due to illness or injury. The average child, aged 6-16 years, lost 5.0 days from school, 30 tables, (AEd)

256. WILDER, C. S. Health characteristics by geographic region, large metropolitan areas, and other pinors of residence, U.S., July

1963-June 1965 Vital and Health Statistics Senss 10, No. 36, Apr 67. Statistics from the Health Interstew Survey on extent of iliness and disability by geographic region and place of residence, and on utilization of 3 types of medical services. Topics covered are long-term and short-term disability, persons injured, incidence of acute lilnesses and injuries, hospitalization in short-stay facilities, and volume of physicism and dental visits 19 tables. (AEd)

257. WILDER, C. S. Hospital discharges and length of stav: short-stay hospitals, U.S., July 1963-June 1964. Visal and Health Statistics Senes 10, No. 30, Jun 66.

There were an estimated 24.8 million discharges from short-stay hospitals, assolving I night or more, among the civilian noninstitutional population, 1963-64. Data from the Health Interview Survey accounted for 96% of the total volume of discharges. The remaining 4% of discharges were obtained for persons who died dimme the reference period arror to the time of interpress. Hospital discharges and days of stay are distributed by age, sex, color, condition for which hospitalized, surgical treatment, type of hospital, geographic region, place of residence, family income, education of the head of the femily, usual activity status, and marital status, 34 tables, (AEd)

258. WILDER, C. S.

Types of infusios, incidence and associated duability, July 1957-hope 1961 Vital and Health Statistics, Series 10, No. 8, Apr 64. incidence of injunes by measures of offeet of injury,

type of minry, family moome, sendence, geographic

rogion, living arrangements, calendar quarter, : age, and associated days of restricted activity disability. Bosed on data collected in the Healt view Survey. 16 tables (AA)

259. WILLIAMS, A F Franciscopy and ecology of alcoholism.

Int Psychiat Chii 3:17-49, Summer 66

Alcoholnen is a strable and fur-ranging problem festing riself in other social phenomena (e.g. drunkermess, arrests). Rates were found to vary in different social semionts, Studies in the 115 eates both for males, whites, urken residents C those aged 36-60, and especially those whose or reason at a high school level. Alcoholson rates amone the Itish; low among Italians, Jews (rate lows me mercusing at the present time), as mons. Stubles, 39 references. (AEd)

WILSON, R. W. Consette emokant and health characteristics. U

1964-June 1965. Vital and Health Statistics, Series 10, No. 34, Ma. Storicture from Health Interview Survey on health characteristics and organitie smoking habicivilian, noninstitutional population 17 years a In general, persons who had ever smoked e reported higher rates of heart conditions, by and/or emphysems, smustes, and poptic ulcer acute conditions, and more days of disabilipersons who had never smoked eigensties. The tion of persons who reported chronic conditi usually higher among former smokers than present smokers. Where a relationship existed bgwen condition and eighrotte moking, the rela tended to increase as organitto consumpcreased, 23 tables. (AEd)

261. WINKELSTEIN, W., JR Some retrospective studies of cerebrovuscular dis Pub Health Monogr 76 41-9, 66.

> Regules of studies are discussed in terms of thinvestigated and their relationship to cerebra disease. Factors found to be associated meloc economic status, serum cholesterol levels, lip levels, smoking, diabetes, ECG changes, and or stress. Suggestions are made for farther research. larly for studies of families of diseased ne-

tables 50 references. (Ed) 262. WITKIN, M. I Patients discharged from short-stay hospitals, U

Day 1964 Vital and Health Statistics: Series 13, No. 1, Oct. Data on patients discharged from short-stay based on information from hospital records of a simple of hospital discharges. Analysis relater sonal characteristics (age, sex, marital status, co discharge status) and to the hospital (geograph) sice, and ownership), Length of stay, conditu noted, and operations and operative procedu

263. WITKIN, M. J. Utilization of short-stay hospitals by characte

formed are reviewed. Tables. (AEd) discharged patients, U.S., 1965. Vital and Health Statistics, Sens 13, No. 3, Dec Utilization of short-stay hospitals based on infe from records of a subsample of discharges c within a national sample of short-stay hospitals. [Jospital discharges, days of care, and average length of stay are distributed by age, sex, color, mantal status, and descharge status. Dockarge rates, daily hospital bed usage rates, and rates of days of cure are distributed by age, sex, and marital status. 13 tables. (AEd)

#### 264. WOOLSEY T D.

Mothulity to relation to smokine haless. Some orthonnavy findings from the health interview survey Anter J Public Health 56: Suppl 56 9-16. Dec 66.

Questions on smoking limbits were included in the questionness used in the Health Interview Survey during the neural July-Dec. 1964. This enables inbulation of such health measures as number of distibility days pur nervon, mudence of acute conditions, and prevalence of chronic conditions by smoking habit and amount smoked, for a national probability sample. Prelminary results are presented for 5 morbidity measures by status

### 265. WUNDERLICH, G. S.

with propect to capacitic smokers. 5 tables (Ed) Characteristics of residents in motitutions for the aged and chronically ill. U.S., Appl-June 1963. Fixed and Health Statistics, Series 12, No. 2, Sep 65.

Information on health and related characteristics of residents in institutions for the aged and chronically ill by age, sex, color, and length of stay. Data were collected on a probability sample of about 37.000 residents of institutions such as nursing homes, homes fee the aged, and hospitals which specialize in the long-tenn care of the aged or chronically ill, 70% of the residents were at least age 75, 66% were women, 4% were nonwhite. The average stay was 3 years, 16 tables. (AEd)

266. WUNDERLICH, G. S., SUTTON, G. F. Rejectes and duration of hospitalization in the last year of hife, U.S., 1961.

Vital and Health Statistics, Scales 22, No. 2, Jun 66. Statistics on number of episodes of care and average days of care persons received to short-stay hospitals and resident institutions during the last year of life. Differences in the attount of tare are shown by age, sex, color, residence, and cause of death. About 72% of the decements had I or more episodes of hospitalization during the last year of his. These were 1,198 episodes per 1,000 decedents, most in short-stay hospitals, and an average of 45 days of case per decedent. Norwhite persons tended to have sensiter numbers of episodes of care and to average fewer days of care than white persons. The episode rate for persons dying of malignant nonplasms was 3 times that of persons dying of accidents. The average mumber of days of care sarged from 1 day for hospitalized decedents dying of certain duesses of early infancy up to 129 days for those tying of arteriosclesosis. 15 tables. (AEd)

#### 267. ANONYMOUS

Accidental deaths in mines and quarries. Statest Bull Metrop Life Insur Co 47:6-7, Jul 66.

The sumber of occidental deaths in mining and quarry operations have been our nearly 3/4 in the past 2 dozubes. Coal mining accounted for the great mapping of seculental mace deaths, 1950-64. Underground mining is more lazardous than surface mining, and of all coal auming operations, hard coal mining apparently is most lazardous. Non-metal unning natured second in the ofgree of risk among the mining purpos considered. Table.

#### 268. ANONYMOUS.

Accidental deaths increase again in 1966.

Statist Bull Metron Life Inner Co 47:1-3. Dec 66.

An estimated 112,000 persons test their lests in occurdents in the U.S. chargi 1956—5,000 mine than in 1955, and 10,000 more than in 1961. The rise in motor which fashies seconded for about 45 of the 1956 increase, own increasing faster than mileage traveled. Here accidents others accounted for 1/5 of recidental deaths Public accidents done for 1/5 of recidental deaths Public accidents other than motor which caused 19,000 deaths, accidents connected with unappressed 14,500. I sible.

#### 269. ANONYMOUS. Accidental falls: fatal and nonfatal.

States and Mercop Life Issue Co 46:446, Aug 65.
About 19,000 persons the annually in the U.S. from falls, most are among those age 65 or older (16,000). Made have a higher doubt rate than do Genales under age 79. After that sais sets higher aroung famals. Each year, 59. After that sais sets higher aroung famals. Each year, 59. After that sais sets higher aroung famals. Each year, 59. After that sais the set of the said of

#### and anymost account in

70. ANONYMOUS. Canada's accident unablem.

States Ball Mercop Life Energ C 47:7-9, Jam 65. Canadrà acolesca Isia in 1564 was 45.9 per 100,000, having done 10m in 150 une of 33.6 Motor vehicle faithins account a 1560 une of 33.6 Motor vehicle faithins account of the control of the control males at overy age being seasily 3 immes that of free and Al age 55 and over, the death not of potentiesins seasily opatic hard seasing car occupants. Falls rank second as a case of accidents in both scars. Femilia have more falls case of accidents in both scars. Femilia have more falls account of the control of the control of the control potential of the control of the control of the control formation of the control of the control of the control formation of the control of the control of the control formation of the control of the control of the control of the control formation of the control of the control

#### . . .

 ANONYMOUS, Characteristics of corebeal vescular moutality.

Statist Bull Metrop Life Dear Co 47:8-11, Apr 66.

Between 1952 and 1963, ourdeal viscular disease has caused about 100,000 deaths a year and has been a contributory owner in another 150,000 deaths armually. For white males, mortality risks here declined from 86.7 to

77.6 per 100,000 population since 1952. The percent decrease wares by age: 25% at age, 45-64, 15% at ages 65-74, 68% at ages 75-86; but an increase of 28% for ages 85 and over. The pattern for white females is similar, White-nonwhite differences remain consists it. I table,

#### 272 ANONYMOUS. Current mortality report. Standard ordinary policyholders. Metropolitas Life Insurance Compuny.

Santa: Bull Metrop Lefe June Co 47:11. Jul 66, Death rate for all ensure of details, larst half of 1966 compared with 1965 and 1962-65. Cadiovascular devenues, analysisment mospherus, purumentis, and antiheards, are among the major course of death. Acculent and suicide astes are grown. (FdI)

#### 273 ANONYMOUS

ANONYMOUS.
 Deaths and autoptics. A statistical review of deaths and
post anortem examinations of Pennsylvania residents
over sksty-four years of age for the year 1964.
 Prant Med 20:612-3 Mar 62

A shifted review of detals and proteororize examinations of Fennyelmin resolutes to ref 6 years of 190, 123,845 deaths shiring 1964,625 were in age gauge new 66, partimentum sewer conducted on inburt 23% of these. Data are given ove (1) the number of detalls in general hospitals, nurritie houses, county house, and universe death occurrency, 0,230 courses of death, and where death occurrency, 0,230 courses of death, and formed by pines, and by cause of death, 1 tables, 1601.

#### 274. ANONYMOUS. Death in the finuly.

Statist Bull Metrop Life Inner Co 48:5-7, Apr 67.

Death in the family less merkedly dissipational. The failure is bledy to be the fast to dis, while 50 years got intentions diseases would have consul first doubt segment the challens. The channes of the failure not surveying the youngest child is self-supporting these sharply with ago of the failure. Dust show "chineces of teach" in typical families and chances of serving from a specified up to gap 65, for made and teacher. Tables, (Ed.)

### 635. ANONYMOUS

Declaration by the health ministry on obligatory registration of five and stillborn fetures, death of an infant up to 7 days of age and death of the mother (24 Nov 1964). Cest Pediat 20:67-76, Jan 65. (CZ)

## 275. ANONYMOUS. Fatal accidents amount city resistents.

Statis thalf Metrop Life Imar Co 47:5-7, Veb 66.

The 6 ginnt U.S. cities O.Y., Chicago, Detroit, Los Angeles, Philadelphia and Herscho) report lower accidency for the country as a whole and 101 cities with population country as a whole and 101 cities with population results from room limits. These 101 cities with population rates than some chicken and lower rates than room which fatalistics in giant cuties, compare favorably with those for the population is a widele, Data for accelerits

other than motor vehicles are menger for city residents but falls rank highest among the causes of mortality. These stanters reflect various factors, such as again sex differences, however, types of industry, and safety programs. Linkle Link

#### 276. ANONYMOUS

I atal acesicuts among preschool chaldren. Status Bull Metrop Lafe Insur Co 47 4-6, Aug 66.

Death rates among children, ggs 1-d, in U.S., 1996/64, rates among children, ggs 1-d, in U.S., 1996/64, rates do been in appreciable improvement in the accident death rates among children asser the trend leveled of about a decade ago Molor accident facilities domained the accident moteriality for boys and griss. Mortifly rates from other causes, the, drowning, falls, promoting, etc., or distanted 1 table 1 clarit. (Fd)

#### 277. ANONYMOUS l-atal accidents increasing among men at the working.

1933
Statest Bull Metrop Life Insur Co. 48:4-6, Feb. 67.
The accodental death rate among near 1925 15:64 increased from 76.6 per 100,000 in 1961 to 84.1 in 1964, a new of 10% in 3 years. The principal reason for this presence with the fire fall fall their from monty wheels may

## 278. ANONYMOUS. Future gams in longavity after age 45. Sterier that Mentau Life hour Co 48:8-9. Ma. 67.

hips, 2 tibles, (Ed)

In the part quarte menture, the supercharge at age 45 mesessed about 18 years, for men and 4 years for was not 18 years, there are sufficiently offset WMT, with tittle change during the part 18 years, there are advances will be dependent on progress assion agreement with the part of the part o

## 279. ANONYMOUS. Geographic variations to leaguesty after age 65 Statist Bull Mercon Life Insur Co. 48: 3-4, Feb 67.

Data on life expectancy at age 65 and surroud from age 65-85 (white only). Slight gains from 1949.51 to 1959-61 for white men are compared with substantial gains for white women in every state. Current life expectancy at age 65 is given for 7 foreign countries. 2 (ables, (Fa))

#### 280. ANONYMOUS. Health progress in Canada. Statist Bull Metrop Life Jean Co 46:5-8. Nov 65.

(Ed)

All ages showed a reduction as mortality between 1933, and 1963, the largest reduces on being in younge ages, reflecting reduction in infant mortality, and reduction of cital from elikible od diseases. Seem toborous/oils mortality was reduced by more them four-fifths. In 1963, seem to accordance of the diseases were requestible for 1/2 of all diseases where requestible for 1/2 of all diseases. The composition of the disease of the diseas

#### 281 A NONYMOUS

Increase in mortality from cirrhosis of the liver Status Bull Netrop Life Inna Co 46:6-8, Dec 65.

Mornishy from currhous of the free his secretor in the U.S. rising from 9-4 per 100,000, 18-15.3, to 10.9, 19-61-63. Marked differences in trend seconding to age, sey, and rate over noted. Morevathe mortility was higher than white, Citrhosis is markedly higher among males than formish. The access read mortilaty is the marked in nonembrito. About 225 of the charlist among mouthlies and a little law money whites twee succeived by mis-darked history of said in the production. The charles of the charles are the production of the charles are not succeeded by the production of the charles of the charles are not succeeded by the charles of the charle

#### 282. ANONYMOUS

Long-term charges in procure on-influence mortality. Status Bull Metrop Life Inner Co 47:7-10, Feb 66. Mortality rates from procureous and influence in the U.S. were high (70.2 per 100,000) in the 1940's, but due to sulfa drugs and genefithi, the rates decreased to 25.8.

1949-50, and have held approximately that ratio for the past 15 years. Age-adjusted due in rates among nowfolfus are brief those for whites Presument and Influence continue to be againteent public levelab problems, and account for 60,000 deaths annually in the U.S. mostly among the aged and children. I table. I figure. (Ed.)

## 283. ANONYMOUS. Might causes of childhood mortality.

Status Bull Metrop Life Imar Co 47:6-9, Mar 66.

In 1940, the death rate at ages 1-14 years was 155 per 100,000; by 1964 the rate was down to 59, a reduction of store than 60%. At least half of the total mortality at the state and a statistical state and a statistical state and a statistical state and a statistical state. The statistical state and a statistical st

# nami reoptams. I table, 1 figure, (Ed) 284. ANONYMOUS. More then \$500 drownings a year in United States.

Status Bull Metrop Life Inna Co 46:8-10, May 65.
Accidental drowning (exclusive of that associated with water transport) occounts for more than 5.000 death-

containing and the second seco

## ANONYMOUS. Mortality from fires and explosions continues high. Statist Ball Metrop Life Insur Co 48:6-7, Jan 67.

Fires and explosions continue to be a large problem I the U.S., existing 7,000 destits each year, an accident to exceeded only by motor while fatalities and deaths from falls. The young and the old saffer the less/set mortilly from Rires and explosions. For each ext and color group, death rates peak at ages 65 and over. 2 cheets. (Ed.)

286 ANONYMOUS Mortality from brart disease an insurance expendice Stante Bull Metrop Life Ivan Co 3-7, Oct 66

> Heart disease is by far the leading cause of death among arrared persons In 1964-65, 337 per 100,000 male and 173 per 100,010 female policy holders died of heart disease 86% of artemoscherotic eticlory. Hypertensive board disease was the second most bequently reported come of cardus mortality and rhomatic heart disease was third in minoritatice. Congenital heart disease was resionsible for about 900 in both seves under and 5. After adulthood is reached, this cause is of little importance Mortality statistics from heart disease by etiology for policy holders and for U.S. general population, 1964, are green 2 tables (Ed)

#### 287 ANONYMOUS Motoscycle accolent deaths more candly

Status Bull Metrop Life Insur Co 48 3-4, Apr 67. Motorcycle accident deaths in the U.S. have been using strodly since 1961. The concomitant rise in motorcycle registrations results in a decline in the rate of fatalities among motorcycle registrants 2 tables, 4 seferences

#### 288. ANONYMOUS. Recent cancer mortality trends among men Statist Bull Metrop Lafe Input Co 47 4-7, Jan 66.

In the last decade, male mortality from cancer has increased (among policy holders in Metrosolitan Life Inc. Co.) 140 at uses 35-44 and 60 at uses 45-64 vrs. The high rate among men reflects increases in cancer of the lung and broughus, lymph glands, pancress, and brain Same sites showed a reduction: stomach, rectum, genitounsury tract, bladder, hver, and prostate. Hodgkins disease and intestinal concur showed no charge in the decade. Some progress in the control of cancer among men as indicated by the results of a national survey evaluating the end results of therapy in which survivorship has increased Rates are given. I table. (Ed)

### ANONYMOUS

Recent mortality fronds in the western world. Statist Bull Metron Life Insur Co 45, 1-4 Aug 65

In 19 Western European and English-speaking countries, mortality rates were low in 1960. The ago-adjusted death rate in these countries averaged 10 3 per 1,000 for males and 7.0 for ternales. Norway had the lowest rate followed by Notherlands and Speen Portugal had the highest rate. The U.S. ranked 9th for males but 5th for females. These rates were lower than those observed for proceding years. Finland showed the greatest reduction and the Union of South Africa the least. For males, the least reduction in mortality occurs after age 65. I table. (AEd)

## ANONYMOUS

Reported frequency of chronic respiratory diseases and casses of death; age variations Statist Bull Metrop Life Insur Co 46 6-9, Ank 65

Age-specific mendence of respiratory diseases as underlying or contributory cause of death among make policyholders whose death claims were paid 1962. Deaths caused by emphysema increased rapidly with advance in age. Presented are data regarding the relative contribution of major chrome requiratory diseases to death - int were asenbed to other causes Chrome respirator ineases accounted for more than 32,000 deaths in the 1 S. in 1963, but this greatly understates the extent of their contribution to the death toll 2 tables, (Ed)

#### 291 ANONYMOUS State variations in Ionnevity greatly reduced. Starist Bull Metrop Life Insur Co 47 4-6, Nov 66,

Life expectancy and annual atortality rates (1959-61) are even for white males and females, by State, at leith, at 25 years of ago, and at 45 years of age. Tables (Fil)

202. ANONYMOUS Survival and the life eyele.

### Statest Bull Metron Life Insur Co 47:5-7, Sep 66

In 1964, average future life expectancy was 68 years for newborn white males and 75 years for females. According to morbidity conditions prevailing in the past decade, 39 out of 40 newborns will survive until the see of 5 years. Chances of surviving through specified nervols of life are given. Chart. (Ed)

## 293. ANONYMOUS. The chances of reaching use 65 white women. I table. (Ed)

Statist Bull Metrop Life Insur Co 47:3-5, Veb 66 Changes of reaching age 65 are 69% for white males at birth and 81% for white females (1964). Life expectancy past 55 is 13 years for white men and 16.3 years for

### 294. ANONYMOUS.

The nolden wedding anniversary an increased akelyhood Statest Bull Metrop Life Insur Co 47 1-2, Jul 66.

Pifty years ago the changes were about 1 in 6 that a man 25 years of ago and a garl 19 would both survey 50 years. Chances are now 1 in 3, Joint life expectancy for couples of selected ages according to the mortality among all men and women in the U.S. during 1959-61 is shown. The figures represent the potential duration of marriage and do not allow for animiment or divorce. 1 table (Ed)

midlife.

295. ANONYMOUS Widows and Widowhood Statist Bull Metrop Life Iran Co 47:3-6, May 66.

One out of every 8 American women 14 or older is a widow, according to a March 1965 U.S. Census Report Widows outnumber widowers 4 to 1. At ages 55-64, 21% of white women and 28% of Negro women see unlows, and at ages 65-74, the percentages rise to 43% and 60%.
3/4 of women past 50 will live 20 years or more 2. tables (Ed)

#### 296. ANONYMOUS. Worldwide increase in cancer mortality among men at

Statist Bull Metrop Life Insur Co 47:1-3, Nov 66. Ago-adjusted death rates for ages 45-64 are given for various cancer sates, and mercases in the rates from 1960-61 to 1962-63 for 12 countries. Differences in mortality among sites by country are discussed as well as problems in making international comparisons beauof differences in accuracy and diagnosis, 1 table, (Ed)

#### 297 ANONYMOUS

Worldwade rise in motor vehicle accident fatabiles Statist Bull Metrop Lefe Juan Co 47 1-3, May 66

A report of motor vehicle accident deaths in 20 selected countries In most, the general trend has been upward, 1959-1963. In U.S. the death rate has increased each year since 1961, lawing jumped 18% by 1964. Even sharper increases have taken place in some European countries. Degree of motorization accounted for some of the mercase. Tables (Ed)

## 298. ACHESON, R. M.

Mortality from cerebroviscular disease in the United States. Public Health Monogr 76:23-40, 66

Ago-adjusted death rates for cerebrovascular disease have declined in recent years, rates for subarachnoid homorrhage and cerebral umbolism and thrombods have increased so the decline must be due to reductions in incidence of corebial littmorrhage, Rates are discussed by ago, sax, color, gaographic regions of the U.S., seasons, and some compansons are made among countries, Influcucus of temperature variation and mineral content of draking water are discussed. 3 tables, 15 figures, 47 references. Addendum. (AEd)

#### 299. ADAMS, M. J., SPICER, C. C. Recent mortality from breast current Lewcet 2.732-4, 9 Oct 65.

There was numerally steep rise in the number of deaths from breast concer in females in 1964, in England and Wales. Exemination of scortality from this disease over the previous decade and its meldence over the preceding 4 years, has not sevented any single factor that might account for the sudden increase. 4 tables, 1 figure (AEd)

300. ALDERSON, M. R. investigation of muzulity. Referred to howestal among a representative sample of adults who dled.

Proc Ray Soc Med 59:719-21, Aug 66. 590 out of 2,243 deaths in the sample were not referred to hospitals. Data are given showing distribution of nonreferrals by ago, social class, mantal status, month of doath, and family physician certification. Various reasons for nonreferral are discussed. 4 tables, 1 refer-

#### 301. ALLAN, T. M. An autumn peak of lung cancer deaths. Laucet 2:387-8, Aug. 65.

once. (Ed)

Data of 200 coves of lower respiratory (lung) cancer deaths in Gluspow (1953-62) and 3,733 cutes in Western Scotland (1960-61) and data from England and Wales (1953-62) all demonstrate in autumn peak in deathsbetween August and December. These findings are inpostrast to those for upper respiratory (gams, mouth, pharyses, and larynx) canter and non-neoplastic resporstory disease denths where the peak is highest between January and March, 2 tables, 4 references, (AEd)

#### 302. ALLAN, T. M. Seasonal distribution of deaths from concer. Brit Med J 5488:673-4, 12 Mar 66.

In England and Wates, 1912-1920 (excluding 1918-19), it was noted that deaths from cancer were anomalous in

being least frequent in the 2nd quarter of the year and most frequent in the 4th quarter. In 1933, this was confirmed by German data of 1926-31, and again in England and Wates, 1956-63 In England and Wates, 1956-63, deaths from cancer, female deaths from benign tumors, sample goster, and avitsmanoses (in females) showed low ratios of spring to artumn deaths, Opposite ratios were found for thyrotoxicosis and nontoxic nodular gotter. A vitamin lack is suggested in the low frequency of spring cancer duality on the basis of experimental evidence of the inhibiting effect of vitamin lock on tumor growth 3 tables. 3 references. (AEd)

#### 303. ANTONOVSKY, A. Social class, life expectancy and overall mortality. Milhank Mem Fund Quart 45.31-73, Apr 67.

Findings from about 30 studies in various countries and in various years (one in 1687) are discussed. It is concluded that in almost every one, social class differences were found in mortality. Evidence is given that the differcatial is surrowing. It is hybothesized that under conditions of extremely high or low mortality, class differences will be small. 17 tables. 67 references. (Ed)

#### 304. ASHLEY, D. J. The distribution of lung cancer and bronchitis in England and Wates Brit J Caucer 21:234-59, Jun 67. Mortality from lung cancer and bronchitis is compared

for counties of England and Wales, A positive correlation as found between beonchitis mortality and air politation and between lung concer mortality and population deusaty. In areas where coal and textile industries are promineut there is an excess of broughitts and a deficit of lang corner which council he attributed to the desert of air pollution or population density. Inhabition of dust confers protection on the lung against carcinogenic subatences. It is further suggested that the dusty long is in a state of enhanced immunological competence and is botter able to destroy the first few cells which have undergone malignant transformation than in the norma lung. The setchemism is postulated as the reason for the low cancer death rate among coul namers. 12 tables, I figure. 15 references. (AEd)

#### 305. AUERBACH, O., HAMMOND, E. C., GARFINKEL, L. Smoking as relation to atherosclerosis of the occupary orterios

New Eng J Med 273:775-9, 7 Oct 65.

A study of the degree of atherosclerosis in the coronary exterior of 1.322 men who died of diseases other the coronary heart disease. The smoking labits of these me were ascertained by interviews with their families. The percentage with an advanced degree of corporary afterosclorosis was higher among esparette smokers than renone nonsmokers and increased with the amount of eignette smoking. Both among nonsmokers and among eigerette smokers, the percentage of men with advanced commany atheoselerosis increased with app. 5 tables, 7 referemocs. (AA)

#### 306. BAILAR, J. C., 3RD, GURIAN, J. M. Month of birth and cancer mortality

J Nat Conor Inst 33:237-42. Aug 64. There is a well known correlation between the occurrence of corpor as laboratory animals and infection at an early age with cersion viruses. This correlation, combined with the casesal distribution of most burnan viruses, led to a search for difference in cancer medition or mortally rates strong persons been in different months. No exch difference could be established for earlier arts, for any age group, nor for any of the stors or site groups studied 4 thick Reference, (AA)

307. BAILAR, J. C., YOUNG, J. L., JR., Occord malazancy potum and radiosologic storage.

Pub Health Rep 81:311-7, Apr. 66

Because of recent concern over possible confamination

of the Columbia River by radioactive products from flatford Alours Storage Pissers, an independent sandy was made to determine caneour mortality trends in Warhington and Dregon, 1934-1965. Revalles showed lower cancer rates than for the whole U.S. Leukenna treas see high but varye high before the Aleman Project started No evidence of excep, risk was found. 5 tables, 9 references, (Ed.)

308. BAIRD, V C.

Effects of atmospheric contamination on cancer mentality in petroleum refinery employees. J Occup Med 9:415-20, Aug 67.

Metality raise from long career, 1935-63, among 18-477 requirers of friends for and Perliang Company are compared with producing, transportation, sales, and explosation groups, and with the salett population of the same geographic area. There is no geniter incidence of darks from languacture around these reflects required to darks from languacture and the same geographic area. There is no geniter incidence of darks from languacture and the same geniter and the same groups and the same groups are said to the same groups and the same groups are said to the same groups and the same groups are said to the same groups and the same groups are said to the same groups are said to the same groups and the same groups are said to the same groups and the same groups are said to the same

'09 BEHM, H., BACAZ, A., GUTIERREZ, H. Recent mortality trends in Chile. Vital and Health Statistics, Science 3, No. 2, Apr. 1964.

Tree and recent statement, seem 3, No. 2, Apr. 356.
The terrol in meritary tasted by see, and selected course has been maded at Chat for 1933-1960, (1) level course has been maded at Chat for 1933-1960, (1) level seems as the seems of the

 BIORCK, G., BOSTROM, H., WIDSTROM, A.
 On the relationship between water hardness and death rate in cardiovestaler diseases. Acta Med Sound 178:239-52. Aug 65.

A study on the relationship between deaths from cardioversized idenses and version parameters as densions water in 34 Swedish towards in 1931-64. The figures water in 34 Swedish towards in 1931-64. The figures water content and parameters of the student parameter the exclusive for concentration and the students of their depresentable heart disease for 2422. Extending the findings confirm souther of smiller studies from other countries. I also misses the profitten of the modelai algorivance of this dispositio group. 10 stoller. 5 figures. 16 reference. (As) BERELL, J. H.
 A note on automobile—tran (streetear) fatal aecidents and alcohol in the cuty of Molbourne.

Med J Austra 2 14, Jul 67.

A tense of 5 fast collisions between motion velocitys and transe (altereturely a sanlyzad. 19% of the cellificons were hand on, the curs verenge into the voog trans track. The cast diverse ware receptated to rid the cellisions, 22 hosting significant board actived levels and only one having a blood heaving below and only one charges in make, commonly upped 24 person to rice, were largely and alternative rice, were largely as a fairness of the commission records. 9 figures.

 BLACKBURN, H., PARLIN, R. W. Astrondersts of disease Insurance murtality expensive.

Ann NY Acad Sci 134:965-1017, 28 Feb 66.

312. BOLANDER, A. M.
The pattern of morasisty in Sweden
Leberdoniuses 64, 1333-42, 29 Mar 67, (SW)

No English automory,

313. BRADAC, O.
The mostality of chaldren below the are of 14 to source

owntries m 1957 and 1961.
Cosk Pedar 22 249-56, Mar 67, (CZ)
No Englids summary.
314. BBANOWITZER, Z.

Dynamics of vital statistics in the population of Poland and in certain European countries in 1930-1966. Zelour Publicare 4:467-77, Apr 67. (POL) Discussion of mortality in Poland and congrarison with that in several European countries. Analysis in based on

principally on 1950-1960 data, Mortality of children in the flux year of life is analyzed, particularly in two age group, 7-27 days and 6-11 another. (AEd) 315. BUXBAUM, R. C., COLTON, T.

Relationship of motor vehicle inspection to aveident mortality.

JAMA 197:31-6, 4 bu 66.

The role of mechaniste failure in nationalsitis nections. It assuming by comparing motor vehicle meritality among nen, agas 45-54, is attate which do net flow motor which inspection. Improvious is resorted with fower mentality, and this association permitt under vaying excoosing, seepangable, and demographic conditions, and considerable with the control of the con

316. CAMPBELL, 11. Cancer of the cervix—survival. Comparative study of 5-year servival rades from cancer of the cervix in 14 econtries from 1953-1957 followed to 1962.
J Obset Gymane Brit Comm 73:274-07, 19th 66.

A review of results of treatment of carcinoses of nierat and vagins shows that survivel rate in British clinics are poor. Overall mortatiny of the distance in the United Kingdom when compered with 14 office committee is not high, but 5 years survived rates are lower, International study is recommended. 9 tables. 3 Pigues. 5 references. (Ed)

317. CAMPBELL, II. Chapter in mortality trends; to Eugland and Wales

1931-1961 Vital and Haulth Statesture Screen 3, No. 3, 1965.

This analytical sordy of mortality trends in England and Wales examines the effects of certain economic, social, and medical changes on mortality and the prospects for future changes in mortality. Allowing for artifacts of diagnosis and coding, a clear pattern is seen of declining mortality from infectious and resonatory diseases, little change for neoplastic diseases and violence, and gradual sucrease for viscolar diseases. In England and Wales the average age of the population is still increasing so that the death rate will rise in the future unless major changes cetur in the presention and cure of coronary artery disease. Except for reduction in organitte smoking there is no major advance in medicine or public health in prospect that is likely to alter the main trend in mortality, which has shown no improvement in the last few years. Tables. (AA)

#### 318 CASE P.A. Demography and the caucers See Retry Med Ann Rev 71,40, 66

Age-standardized death rates are given for all forms of cancer in England and Wales, 1851-1960, Japan, U.S.A., England and Wales, and Chile, 1951-1953, for lung cancer in males (England and Wales), 1911-1954, and for tumor of brain (England and Walts), 1911-1960. Also meladed are data on tumors of bladder in workers exposed to carcinogenic agents, and stomach cancer in fomales. Environmental and occupational hazands are discussed and found to be closely related to cancer development. Charts. 44 references. (Ed)

319. CIUCA, A., CRESPIN, R., JUCOVSCHI, V. The geographic distribution of longevity to the People's Remblic of Rumania. Rev Hyg Med Soc 12:341-53, Jun 64, (FR)

The percentage of very old people varied from 3 to 19 per 1,000 initiabetzets. The lughest density was in moss with altitude 500-1,000 m.; the average in hilly seens. and the lowest in lowland areas. According to the 1956 consus there were 487 contenurisms (27 per one million inhabitants), the highest rate being found in the southern nert of the country where is a rule very old people are scarcer. The female-male ratio was 160,100, it varied between 1:3 and 1.4 in stees with lower lonewity. A close relationship appeared to exist between socioeconomic factors, environmental conditions, food habits, and foresvity. (AEd)

320. COHEN. E. Solidide in San Francisco: reported and unreported. Calif Med 102, 426-30, Jun 65.

> 1.664 persons killed themselves, 1956-1964, in San Francisco, secording to coroners' records. The most frequently reported means was oral insection of toxic substances-a deviation from national statistics which report shooting the most frequent method. Explanation for the deviation is attributed to more valid mortality statistics of San Francisco Unreported micide may be largely suicide by Ingestion, unrecognized because of lack of nost-mortem studies. 5 tables. 16 references. (AEd)

321 COMSTOCK, G. W., KENDRICK, M. A., LIVESAY, V. T. Suboutaneous latnes, and mortality. Amer J Epidem 83 548-63, Nay 66,

Subcutaneous lat was measured for 24,390 revidents of Muscoper County, Georgia who had participated in a community survey for tuburculous in 1946. For all racesex-age groups combined, mortality over 14 years was about 12% greater for the fattest persons. Mortality from diabetes was most strikingly associated with fatness, follosend in onler by company heart disease, accadents, strokes, and hypertonsion. Tuberculosis and other respiratory diseases showed the opposite trend. No relationsion with fatness was noted for concer and the residual causes of death. Excessive mortality among fat persons was generally more marked for whotes than for Neuroes. In white males over age 55, fatness was not associated with increased mortably, 4 tables, 6 figures, 19 referonces. (AEd)

322. CORONE, J., ROUQUETTE, C. Mortality due to accidents in the young from 1 to 14 years of age in 1961-1962-1963. Bull Just Mat Sante 21: 261-73, Mar-Apr 66. (FR)

Accidents cause the largest number of deaths among children. Motor vehicles lead as causes of accidents, followed by drowning and burning, Auglysis of fatal accidents among children in France is by ago, sex, years, and type of accident. Statistics for other countries are also presented, 14 tables, (AEd)

39. CUTLER, S. J. The use of tumor registry data, Cell f Med 106:98-107, Feb 67,

323. CUTLER, S. J., HEISE, H., EISENBERG, H.

Childhood lookemin in Connecticut, 1940-1962 Blood 30:1-25, Jul 67, Data on 472 leukemia patients under nec 20 scen in

Connecticut liosuitals, 1940-1962, Survival expenence improved, 1940-1950; since then these has been little change. Patients with acute lymphocytic inskrunia showed greater survival than those with acute myelogenous leukemia. When survival increased rapidly, the rate of feukenia meidence increased only predenately and with little charge with respect to characteristics such as initial winto blood cell count and the presence of bleeding and hemorrhage. After 1950, underpread use of chemotheraphy and change in specific agents used were not associated with further improvement as survival. New treatment regimens succ 1962 will be reflected in later studies. 17 tables. 7 figures, 13 references. (AEd)

324. DAMON, A., MCCLUNG, J. P. Provious pulmonary disease and long cancer: a casecontrol study

J Chron Dis 20:59-64, Feb. 1967. Among more than 17,000 men examined medically and

anthropometrically at Harvard University between 1880 and 1920, 130 had died of him eancer by 1 January 1966. Each long cancer decedent was matched with the next man of the same ago to be examined. Mean age at examination was 19.9 years. Of the controls, 87 had died and 43 wors still alive on 1 January 1966. The lung cannor decadents and the controls did not differ in the number or nature of prior pulmonary diseases reported during their medical examination at Harvard. Among the controls, agnificantly more of those without early pulmonary discuss than of those with early paimonary discase were still alway. 3 belles: 17 references

325. DEANE, M.
Loudemolour of chrome beencists and emphyseus in

the United States 11. The interpretation of mortality data. Med Thorac 22:24-37.65

Draft certificates are a constraint source of information or epidemiological studies, but them usefulness it insisted by the manner in which data are recorded and taken the control of the property of the pr

326. DENOIX, P.

On execut mortisity and morbisity in remous countrior. On Med Censils 94: 437, pp. 63, [18]. Morbisity and morbishy rates for different cancers rea shown for 1960-61 and 1952-53, by six, in Japan, U.S. (white and normality, Parland, Parland, Parland, Parland, Varland, Parland, Parland,

 DOLL, R. Worldwide distribution of gastrointestinal cancer. Net Cancer Inst Monage 25:173-90. Jul 67.

> A worldwise comparison of mortality and incidence astes for contror of the supplingst, elementh, colon, and rectum, by sex and age, 40-59 and 45-66. Problems of interestional comparisons see discussed including rellationly of district control site and comparabative of age distributions among countries 10 tables. 3 figures, 12 references (Ed.)

328. DOLL, R., HILL, A. B. Mortality of British doctors in relation to smoking obsensations on coronary thrombons

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Nat Concer Ivit Monogr 19: 205-68, Jan 66 A followup of British decides whose smoking highits had been previously recorded, 1,376 deaths occurred over 10 years in which the "underlying curse" was coronary disease. These deaths were reclassified into 3 groups accordare to combinations of diseases referred to on the death certificate: (1) 35 cases of thromboxs with another discase related to eigarotte smoking (closely related to smoking), (2) 721 in which thrombosis was unqualified (related to swoking), (3) 613 as which thrombosis was accompanied by some other disease (unrelated to smoking). It is concluded that a large number of deaths from coronary theorebox's are associated with eigarette micking but-another large number of thrembous deaths result from association with some disease and are not related to cigaretic smoking, 3 tables, 11 references Appendix. (AEd)

329 BORN, H. F. Underlying and contributory causes of death. Nat Cancer Inst Monogy 19 421-30, Jan 66

Populses of some the International Chrodication of the cross for nonethry and morbilly visitives are discovered. The unitor proposes that the list be a classified by a single disposes terms are used in united practice, that may dispose the real real proposes of the problem, and the the nonessity for coding noner than one disposition, been a more are conversed on sharing confidence, the recognition. The first instantic that a single certificate, the recognition. The first instantic that a single that the contract of the code of the code of the code of the certificate, the recognition of the code of the code of the certificate of the code of the contract of the code of th

 DRAGSTED, P. J., LAURITZEN, H. I., SCHLEI-MANN, R., Cancer of the lung as a case of death in patients with pulmorary symptoms, A followup study. Upsatz Long 128:814, 20 Jan 66. (DAN)

About 1,200 quinents with quainceasy disoulour as metted to it medicine dispositions, 1979-34, were followed metted to the medicine dispositions, 1979-34, were followed metted to it medicine dispositions and the medicine disposition disposition and the measure of death on approximately 1056 of the soles and 256 of the femiliase who defined the femiliase who design and the medicine of admittance of a medicine disposition of the medicine disposition of the design admittance of admittance of the admittance of admittance of a medicine disposition of the admittance of admittance of a medicine disposition of a medicine disposition of a medicine disposition of a medicine disposition of the admittance of a medicine disposition of the admittance of the admitt

 DROKOVA, S., DVORAKOVA, M.
 The mortality of children aged 1-14 years in Czechoslovakis during 1952-1963, Cest Pediat 21:935-45, Oct 66, (CZ)

Analysis of mortishity of cludiron uges 1.14 in the Cateds Southat Republic, 193-263. Monality from all casses in units requirement many become of reductions and the contraction of the contraction of the affection of the contraction of the contraction of Actualizes and possosings and cellular its rapedy. So of death soil ultry have not declining its rapedy and utilizes had the highest movisity. Regional and seasonal avarations are discussed. (AES)

332. BDWARDS, J. E. Pathology of sudden death. Minuscola Med 48:1519-35, Nov 65.

Solden death may be caused by teleon-involving the curvate, replactory, or decisalisty systems. Letters of the directivent program insurance) represent the largest for uniform curvate for million to the control of conflictions that may be represented for uniform curvate and the control of t

I KRLOM R On mortality in recent widows and widowers. Svensk Lakarndo 61 3343-50, 28 Oct 64. (SW)

No English strategy 3.

#### HEJFAR, Z., BAIHGER, D., GRAIS, M. Egidemiological a pergy of thrombous and varieties dis-

Thromb Diath II. vsorth 21 Supp. 21 5-15, 66. Mortality data is all markedly reduced incidence of pulnonzzy embolish among certain African and Asian popdistions and a: levation of cerebrouseaste decase oupled with a . . If incidence of inchemic heart disease

wrone the Japan compared with data for Furone and Forth America | without oncellusions concerning the mansignife of thron: -mbolic disorders are made difficult y a lack of va! omparable data. Studies of autoper national by WI - indicate that thrombo-embelses is conderably no: - Jamosed by clinicians Neverthelics. urther epidem- socal studies are indicated among hose groups intering markedly in incidence of brombo-embols manifestations & figures 13 mfernors (AEd)

#### "INGERLAND. ; KOPECNY. J. contribution to the etiology and pathology of lung can-Shorn Ved Pine Lick Fak Karlov Univ 9,437-41,66

rang enticer was found in every 15th antopsy in a Creehuslovakian hospital. In men, every 9th case had long cancer. The mean age of the deceased was 61.4 years, 6.4 years less than the incomes life man of men in Czechoslorokes. Lung easser is 7 times more fremient in usen than in women. Positive smoking history was found in 96.5% of men who dead from tune cancer, which highly exceeds the percent of workers in the male population. A smoker affected with pulmonary carcinoma has smoked approximately 300,000 eigarettes during his Infotone, Polimonary cancer was found in 16% of agricultural and forestri workers which corresponds to the share of the agricultural population in the East Boliceus Region and occuses the hypothesis that the urban pollution of the atmosphere is the decisive factor for the eticlogy of pulmonary carcinoms. The chancal diagnoss was correctly much only in 62% of the cases. 2 tables. 5 references. (AEd)

### 59. FOOTE, F. M., EISENBERG, H., HONEYMAN, M. S. Trends in cancer meidence and survival in Commeticut.

### Cancer 19:1573-7, Nov 66. 336. FRAUMENI, J.F., Jr., MILLER, R.W. Epidemiology of Imman leukemia: Recent observations.

J Nat Cancer Inst 38 593-605, Apr 67. Recently lookemia mortality has declined for the U.S. white population but not for the U.S. norwhite or English populations. An age peak at 3-4 years bus emerged for Japanese and U.S. nonwhite children smiller to that meyously found among the U.S. white population and in England, Neither a decrease in medical X-ray exposure nor an hypothesis of infectious nations. was supported by the data available, Effects of soniring radiation, chemicals, and cytogenic defects on predisposition to leakernia are discussed. 3 tables, 5 figures. 90 references. (AEd)

337 PREDERIKSEN H Determinants and consequences of mortality and fertility ternols

Pub Health Ren 81:215,22 Ave 66

Discussion of the relationship between fertility, mortalmy, and economic measures of the level of Irving based on data from 21 countries and case bastories of 6 countines. Reduction in fertility is seen as a consequence of a reduction in mortality which in turn is related to an increase in levels of living. The latter also directly augments reductions in fertility 8 tables, 6 figures, 12 references. (AEd)

#### 338. FUCHS V R. LEVESON I. Motor accident mortality and compulsory inspection of whicles. JASIA 201:657-61, 28 Aug 67.

The relation between motor arcidizet mortality and comoutsory vehicle inspection is examined by regression arestandardized mortality ratios on inspection and other samphies across states. Inspection is prostively related to mortality. The effect of inspection appears to be enester in: states with more than one annual inspection, in low meome than in high Income states, and in high education than in low education states. Dollar estimates of the benefits of inspection are found to exceed estimated custs: the difference, however, is not as large as often alleged. 5 tables. 5 references, (AEd)

#### On the offeet of working and living conditions on the occurrence of myocardial infarct Sovet Zdravookler 25 39-43, 66. (RUS)

65. GALICHEVA, N. A.

stndy.

(AEd)

### 339. GARCIA-PALMIERI, M. R., FELIBERTI, M., COSTAS Coronary litert discuse mortality-A death certificate

J Clarger Dit 18:1317-23. Dec 65. A study of all deaths in the 20-64 age group in the Sar Juan Metropolitan area, May-October 1963. The met odology is reported, 53% of all deaths were autopsic Rowsed figures for CHD deaths still rowal a lower saspecific mortality rate in the area compared with the rates reported to the U.S. . R tables, 5 references,

#### 340. GLASS R. L. Mortality of New England dentists, 1921-1960,

Environ Health Ser (Radiol Health) 18:1-70, May 66, An epidemiological study to determine the mortality of dentists in comparison with that of the general population and of physicians. A colort of 11,478 white, male dentists, practicing to New England, 1921-1960, has been identified. The age, date of entry to risk, and suivivorship states of each dentist have been determined and nee-distributed person-years at risk computed. Mortality from all couses has been less than expected from death rates of the New England white male population and U.S. physician population, but greater than that of the general population. Suicide is the only easist of death with greater than expected mortality throughout the study period. No relationship between mortality and exposure to ionizing radiation was observed. 62 tables. 80 sesterences. (AEd)

 GOLDSTEIN, S.
 Joseph mortality and survival patterns. Providence, Rhodo Island, 1962-1964.

Dayon Quart 13-48-61, Mar 66.

A strey of insortably in Providence shows that Jews, especially those in the upper usel-secromme brackets, especially those in the upper usel-secromme brackets in the lower mentality than other religious genuine the providence of the

342. GOLUBCHIKOVA, B, M.

Sessonal variations of cancer mortality, Von Oukof [1.49-51, 65.

Study of seasonal variations of cancer mortality among the populations of eitles of Ukramban SSR m. 1962 revaled a general touckesty of interesting mortality during summor months and docreasing during winter months, with the exception of genifactures in women, Mortality from the latter is the highest during the winter season and lowest in saturant. Rashes by gusseen and month are

given. 3 tables. 8 references. (AEd)

343. GORDON, P. C.
The militarial large of combanily appropriate discounts of Canada

The opitionicology of cerebral vascular disease in Canada: An analysis of mortality data. Canad Med Ass J 95:1004-11, 12 Nov 66.

Analysis of corebral vascular disease mortality for Canada. Since 1950 there has been a gradual decline in the age-sex-specific death rate due to vascular lesions of the central pervous system which has been more econinont in females. 5-year average ago-sex-specific rates. 1900-64, show increase of mortality with see Mortality rates very by province. In the years 1950-64 there has been a 21% docline in mortality due to intracranal bemorthsee, a 53% decline in hypertensive diseases, a 24% increase in cerebral embolism and thrombosis, and on 8% increase in atherscierotic heart disease. There is only inconsistent support for the hypothesis that these associated trends are due to common etiologic determinants. To what extent these trends and differences can be attributed to coding, certification, and diagnostic practices and to what extent to changing incidence and prognosis is not clear. 9 tables. 5 figures. 19 references. (AEd)

344. GORWITZ, K.

Mortality among absolutions.

Maryland Med J 16:82-3, Jun 67.
6,853 patibass with a pitmay diagnosts of sicoloolism were treated in Maryland facilities and followed for 3 years, 1961-1964-5,95 died nufier care, Ages and causes of death are given, 30% died of heart disease, 19% care-based of the Stee. North VIST has also holds over age 65 were dead at the end of observation period. The figures highests that station physical Illineases are frounces occur-

rences among these alsoholies. 1 table. (AEd)

 GREÉNWALD, I. Studies of exophithalmic goiter. I. The relation of exophithalmic goiter to simple goiter. II. Increases in meetality faces exophithalmic goiter. III. Changes in the distribution of ages at death from exophithalmic goiter.

J Chron Dis 20:255-68, May 67. Increases in mortality from exophthalmic golter after 1920 have not been shown to be related to change in the amounts of federed site or of other sources of online comment. Toflowing a suddom increase in morehity in the entry 120%, there was a progressor change lowest properties of the comment of the company of the comyourses at the numbers of these ground prevenders. The great is the entry 120% commanded the same for 25 and 30 years and the numbers of these ground prevenders. The three companies of the company of the company of the three companies of the company of the company of the decrease as morthally offer 1947 may be due to the fact three companies of the common worldward event may be that authorizes positionise or the nature of auditors from the company of the company of the company of the three companies of the company of the company of the command of the common worldward event may be that authorizes a positionise or the nature of auditors from the commanders.

 GRIFFITH, G.W. Investigation of mortality. Mortality of males from cancer of three sites in seven cities.

Proc Roy Soc Med 59.713-8, Aug 66.

Study of recent mortality of adult males from cancer of laryns, Isag, and urinary bladden in 7 widely separated elists. From data collected in the inter-American lowesti-

heyers, tage, and unitary bladder in 7 whiley segament citists, from data collected in the latter-Anteriman Investipation of Security, (The cities are Biasel, Cale, Carea, District Carea, Carea, Carea, Carea, Carea, Carea, Carea, Security, Carea, Carea, Carea, Carea, Carea, Carea, Carea, Security, Carea, Carea, Carea, Carea, Carea, Carea, Carea, and unuray bladder. Qualitative differences between and unuray bladder. Qualitative differences between and unuray bladder. Qualitative differences between and control of the Carea, Carea, Carea, Carea, Carea, and Carea, Carea, Carea, Carea, Carea, Carea, Carea, Carea, and Carea, Carea, Carea, Carea, Carea, Carea, Carea, Carea, and Carea, Carea, Carea, Carea, Carea, Carea, Carea, Carea, and Carea, Carea,

 GRIFFITH, G.W. Mortality from cancer of the alimentary tract in seven cities.

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And Caster Inst Monogo 23, 259,744, 3x1 67
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 GROSSO, E., BRAGA, A., CALVI, L. Mortality from diseases of the respiratory tract in Italy from 1913 to 1959. I. Mortably from malignant tumors and homodrifis.

and tolerabilities.

Mortality from resputatory cancer increased alone 1945 m makes over age 50 in Italy. The districts with the greatest increases were missibly in the confitent part, while the smallest increases were in the confitent part, while the smallest increases were in the contract and soothern parts of Italy. Mortality was higher in industrialized positions and horse in their provinces. Mortality from positions and horse in the large transfer. Mortality from positions and horse in the large transfer in the provinces and horse in the large transfer in the l

smaller towns in each province. Mortality rates from nopiratory caneer and bronclutes in Italy and in other European countries have not shown any relationship to the economic and industrial level of the country. 12 tables 8 flaures, 22 references, (AEd)

349. GSELL, O., STROBEL, M.

The development of cancer mostality in Switzerland 1910-1962. Incidence of green-specific cameers 1962-Charges in relation to age and sex since 1910. Schweiz Med Wachr 95,1165-7, Copel, 28 Aug 65. (GER)

Accessor changes in cancer mortality in Switzerland since 1910 are examined. The propertion of all deaths has rises from 8 to 20% as last 50 years. Men show a 24-fold increase of career of the lung, which is one-third of all male cancer in the 40-60 year age groups, Men show a 2% higher rate for latte cancer than women. 13 referenors. (AEd)

350 GURALNICK L. Some problems in the use of multiple causes of death. J Chronic Der 19,979-90. Sen 66

An exploratory study of the problems in the development of multiple cause data was undertaken, based on a one-third sample of deaths in the U.S. in 1955. The study produced extensive tabulations of data metful in bealth programs and at the same time revealed citarly the fundamental research needed to develop a new series of sportality data based on all conditions related to death, 9 tables, 1 figure, 7 references, (AA)

832. GURALNICK, L., JACKSON, A. An index of unnecessary deaths. Pub Health Rev 82:180-2, Feb 67.

351. GWYNNE, J. F. Fallicies in cancer mortality statistics. . New Zeal Med. J 64: 145-51, Mar 65.

> 1,657 [tospital recropsics layer been reviewed to assess the incidence of cancer, and the accuracy of its elmical diagnosis, 443 tumors occurring at 432 patients have been analyzed for diagnostic errors. Incomplete or erroneous diagnoses were reported in 33% of the mallgrand lesions found at necropsy, a result similar to figures reported oversens. Errors occurred frequently in common provisions. Silent tomors formed a significant room. A much higher national autopsy sate must be achieved before investigations into the etiology, epidemiology, and prevention of cancer can become effective, 4 tables. I figure, 7 references, (AEd)

352. HACKL. H. Restarch on mortality during the course of the year. Oeff Generalbeitsdienst 27:10-4, Jan 65, (GER)

Statistical computations of 9,000 postmortom examinations and 250,000 deaths, in the city of Vienna, showed that the spacoual rhythms of death depend on the irradiation of the sin. This interrelation between length of daylight and mortality is, in the case of blological death as well as death due to old age or its consequences, very distinctly Indicated. 1 table. 3 figures. 8 references. (AA)

353. HAGSTROM, R. M., SPRAGUE, H. A., LANDAU, E. The Nadwelle air pollution study, VII, Mortality from cancer in relation to air nolletton. Arch Empron Health (Clucago) 15:237-48, Aug 67,

> A study of cancer mortality in relation to air pollution and socioeconemic factors for Nashville SMSA. 1949-1960. Certain pollution indexes were positively correlated with cancer mortality for specific sites in a given sociotementic group. For constant sir pollution expense, socioeconomic status was inversely related to cancer mortality for specific sites and directly related for other sizes. Ass-adjusted death rates are discussed by sex. color, speioceonomic status, and pollution level within the SMSA for various cancer sites. 3 tables. 5 finites. 28 ruferonous. (AEd)

354. HAMMOND, E.C.

Smoking in relation to the death rates of one million men and women. Net Concer Inst Mongr 19:127-204, Jan 66.

Study of 43,221 deaths amone 440,558 men and 562.671 women, sees 35-84, who carolled in prospective study in 1959 and answered questions about their snoking habits. Death rates of both sexes were higher among those with a history of cirarette smoking than among those who never smoked recularly. The differential was greater among men than women. Death rates of current clearette smokers increased with number smoked per dny, years smoked, and degree of inhabition. Higher death rates were found for many diseases including coronary heart discusos, corobral vascular losions, oxobysome, cancer of the lang, and cirrhosis of the liver, 22 tables, 22 references, Appendix including 19 tables, (AEd)

355. IIARO, A. S Mortality in Finland versus other scandingsion countries 1948-1964 Duodecim 82:1136-51, 66. (FIN)

Pinland is similar to other scandinavian countries in outturn, mononey, quantity of brolth services, and other variables. Meetality, however, is considerably higher in Finland, mostly in men of middle and old age and higher for reserically all maint causes of death, Explanation for the excess in mortality are discussed including the possibility of different habits of the necessation in util zution of health services, 10 tables, 8 figures, 12 references. (AEd)

356. HAYBITTLE.J.L. Cigarette smoking and life expectancy. Brit J Pres See Med 20:101-4, Apr 66.

> Life expectancies at age 40 have been calculated for men In various smoking categories, using data from 6 prospecifie studies. It is shown that the life expectancy of nonsmokers is shout 6 years greater than that of heavy smokers (more than 21 eigerettes a day). The implies tions of this finding are discussed in the light of a number of possible hypotheses about the effect of smoking on life expectancy of the individual smoker. 14 references. (AA)

357. HILL, G. B., ADELSTEIN, A. M. Colort mortality from eardnoma of the cervix. Lancer 2:605-6, 16 Sep 67.

Introduction of mass extological screening will henefully lead to fewer deaths from corvicel cancer (statistics from I righted and Walet are encouraging). Crude death total and strandard storation's rasts show a declane, 1940-1965, agent from the uniformer peak in 1958. The gas specified death rate, however, recent limit these shorts are weighted by other age groups. Upward mends serve seen for age of 199, 40-49, 40-40, 40-50. The suggests a colored separation pattern if those consideration pattern if the control of the server of the second server of the second server of the server of the

96 HINKLE J. E. JR., BENJAMIN, B., CHRISTENSON, W.N. Commun. Seatt disease. 30-year experience of 1,160

men.

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102 HUSZAR, T Statistical study of morbidity and mortality through neithing diabetes in the Socialist Republic of Romania, State Problems (Basary 8 433-9, 1965).

Saute Printipue Huseirs R 433-9, 1985.
358 JAOLON, S., ANGEVINE, D. M., MATSUNOTO, Y. S.
On the significance of cause of death as recorded on death certificates in Harothena and Negasaks, Japan.
New Casters Int Mosens J 94 45-65, Jan 19

Study of mortality arrang survivors of the storest bomber sign of illustrations and Nagastic by the Atomic Bernh Canality Continuation and the Japanese National Irrattate of Health. An authopy proteoment program began in 1961 has sedired the base inherent as places of the properties of the properties of the properties of the continuation of the properties of the properties of chapman's energies, see, ap., place of steads, and dislinate floating-specifies. Building-stress (Elia)

359 JALAVISTO, E Determining sex mortality causes in adults. Geron 16 47-57, 64 (FIN) No English summary.

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 The Dorn study of smoking and mortality among U.S. veterans report on eight and one-half years of observa

Not Cheeve fine Money 19 1:125, Ian 66 in an 31-year failing of 237.685 persons hedding U.S. Gerettman 186 summer pulses from the measured menulation of the measured menulation of the second of the

361. KATSUKI, S., HIROTA, Y. Recent trends in nondetice of cerebral hemogrhage and infarction in Japan. A report based on death intesatiopsy case and prospective study on combinational disease.

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Westers at gas promotore works in Japan showood as increased risk of ling cancer densi after they disconditioned the work. The humors occurred only after an exposure of 10 or more years to the careforeine raptor or against when the workser had reached the more rap. The foregrethe exposure, the greater the risk of hing cancer, Dain include number of occupational long cancer clearlis, number of gas group workers who experienced gas apererated work, and long cancer clearlis, among them (1953-653). Juliane 9 reference, (AEI)

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Mojor fluidings of stricted applicambologic literatum perturning to excess of the binder are summarized, faccressed mentalty risks have been found among other eggs, makes, tenta areas, native-been robits. Princevants, and subject to the strict of the strict of the strict of the models. Data and deviced persons, and subject to models. Data and deviced persons, and subject to models. Data and deviced persons, and subject to have been factoristic for the four secondary persons. No subject to the strict of the strict of the strict of large been factoristic for the four secondary persons. In the large strict of the strict of the strict of the strict of strict of the strict strict of the strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of strict of the strict of the strict of the strict of strict of the strict of strict of the stric

 KINZIE, J. D., KINZIE, K., TYAS, J.
 A comparative health survey among two groups of Malsym abortgines.

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A review of available data related to the opidemiology of careliar failure with special reference to mortality and mortishity in the U.S. H is difficult to correlate ratch data because of multiple methods of collection in proority defined populations and because most data are concerned 689. KLAUBER, M. R., JACKSON, E. W. Loukerso and reconstal death rates. Loucer 1'1002-3, 6 May 67.

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366. KLRBBA, A. J.

Mortality treads in the U.S., 1954-1963.

Vial and Health Statistics, Steles 20, No. 2, Jun 66.

Dati on mortality ternis, 1954-63, for 12 of the 15 testing casses of death by uge, color, and sex. Fee both ex and cedoe groups these was a decrease in the ratio of all in assentially, resoliting in part from substantial of all in assentially, resoliting in part from substantial for the second section of the secti

 KLIMT, C. R., MEINERT, C. L., HO, I. P. Study of finellal patterns of reported diabetes. Evaluation of questionnaire data.

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367. KRAUS, A. S., OPPENDEIM, A.
Trend of mortality from cancer of the breast.

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Stander (JAM. 187546-6), 7 the 6 (3) has excensively on the energy state level of the detail, undersec, and movived trates for control of the breast in the U.S., in the state of the state

 KRIVINKA, R., COUFAL, K., POLANSKY, F. Development of the epidemiology of tuberculous in Czechoslowskia rifer the second world war. Cest Zdraw 14:79-88, Feb 66, (CZ) 368 KRUEGER, D. E. Hypertensive and chrome respiratory disease mortality confinantion of irends of are high cause of death data. Prob Health Res 31:197-8. Pub 66.

> Official mortality stations whose declarang rates for hypertensive disease and increasing mates for chronic respiratory disease is underlying causes of death. Fash of these types of deases are reported on many feath vertice cases as security as the control of the control of the certification. Materials causes, so that trends in single-cause mortality could be differed by changes in the numero of certification. Materials causes of death data from the National Teast, included the control of the state of the control of the control of the control underlying causes and for continuitiony control as so the fact, for each those is 1 table. In Proference, (ED)

 KRUEGUR, D. F.
 New numerators for old denominators—multiple convex of death.
 Net Convex Intel Monoge 19:431-43, Jan 66.

A 1955 nortality study in US provides data on all the disposors retorded on death contributes in contrast to the sensil practice of tabulating one cases Two ne more cances were tabulated for SSS-4 all faiths. survive reasons cances were tabulated for SSS-4 all faiths. survive reasons are consistent to the contrast to

 KRUEGER, D. E., MORIYAMA, I. M. Mortelity of the Beeign born. Ame: J Pub Health \$7:496-503, Mar 67.

> Metrality data on foreign born and native where on the U.S. and in this countries of but his off the lonear, for major embourned-breenal diseases and for all where discesses, Average named rates by segantials, 119–461, are green. There is support for the hypothesis — death rates of the foreign born from it becomes the solid rates of the foreign born from it becomes the solid for the U.S. population, treadings are discussed at comtaining the companion of the contraction of the foreign segantial and the contraction of contraction of

 KRUIGGER, D. E., WILLIAMS, J. L., at PEN-BARGER, R. S., JR.
 Trends is death rates from carebrovascular disease in Monphis, Temasuse, 1920-1980.
 J Chrone Dis 2012-37. Mar 67.

> Uniform coding procedures were sented to contain data on cerebrowseniar discuse in Memo-Fenn., 1920-1960. Although the total rate was conluring this time, contrasting trends were observed." sumponest diseases, namely downward for ex-...realir hemorrhage and appeard for ecrobiovasculi, and usion, Changes in diagnostic terms and tendencies produced an increase in use of "excelvrovoscular accident" as a term of convenience, but did not obscure the reversing nations. of the two major types of cerebrovascular disease. izonnwant trends of corebrovineator bemorrhise and hypertensive disease and negligible together with upward perallels of corobrovascular occlusion and coronary beart discase, lead to consideration of relationships in effologies. 7 figures. 8 references. (AA)

372. KULLIR, L.

Sudden and unexpected non-traumatic deaths in adults. A review of epidermological and climical studies. J Chrony Det 19 1165-92, Nav-Dec 66

Reported studies of stidus and unexpected nontratiments, deates in adult populations are reviewed. The percent of deaths certified by a coroner or medical examiner is the only available measure of frequency of studden death in a community. The greater frequency of sudden death in certain ethnic, racial, and economic groups may be due to the availability of medical care influencing the frequency of certification by a medical examiner Cardiovascular disease, especially coronery artery disease, accounts for a majority of sudden deaths The pathophysiology of sudden and anexpected death is discussed but because a large number of these deaths occur outsile a hospital and are medically unattended, the mechanism of death are often not determined. 6 tables 173 references (AEd)

#### 373. KULLER, L., LILIENFELD, A., FISHER, R. An epidemiological study of sudden and unexpected deaths madalts

Medicine (Bult) 46-341-61, Jul 67, A study of sudden, unexpected non-traumatic deaths was made for a sample of all deaths to Baltimore residonts, ages 20-64, m. 1964-65. All available medical information including interneys with the next of kin were used to determine. (1) whether the death was sudden, and (2) the accuracy of the disenses reported on the death certificate, "A sudden death" was defined as: "An individual who died due to natural causes and who was not restricted to his home, a hospital or an institution, or unable to function in the community for more than 24 hours prior to death, and in which the time interval from the onset of the fatal event until death was less than 24 hours" After adjusting for sampling, it was estimated that 329 (1,077) of 3,326 deaths to ages 40-64 were studition. Autorioschootic beart ducose (ASHD) accounted For 61% of the sudden deaths 60% of the ASHD deaths were vedden. Of the deaths in Bultimore City, 21% occurred outside a hospital and 46% were dead on arrival (DOA) at a hospital. About half the ASIID sudden deaths had a reported lustery of heart disease prior to death. There are several implications of the findings, A parious has every when studies of sudden death on rostricted to deaths certified by the Medical Examiner. Because of the large percentage of ASHD deaths that are

studden and occur outside of a houseful, or see DOA.

mortality statistics may be smootly affected by write tions in the percentages of sudden deaths certified as

being due to ASHD. Reduction in the frequency of saulden death a dependent on the prevention and treat-

#### ment of ASHD, 12 tables, 75 references, (AEd) 374. KULLER, L., LILIENFELD, A., FISHER, R. Epiclemiological study of sudden and unexpected deaths due to artenoscierotic heart disease.

Circulation 34:1056-68, Dec 66. The results of the study described above are further discussed along with the implications of these findings with regard to the prevention of ASHD death. 11 tables, 31 references. (Ed)

#### 375 KULLER, L., LILIENFELD, A., FISHER, R. Quality of death certificate diagnoses of artenoselerotic beart disease.

Pub Health Rep 82 339-46, Apr 67. In 533 (30%) of the 1,857 deaths to ages 20-64 in the original sample, ASHD was considered to be the princival cause of death OI these, 93% had ASHD as the underlying cause and 7% had ASHD as either an worseduate or contributing carry. Because of the rapidity of the events leading up to deaths attributed to ASHD, the sometry of the diagnosis is often based only on a history of heart dispase, viddenness of death, and the absence of

### other sumforant disease, 6 tables 32 references. KULLER, L., LILIENTELD, A., FISHER, R. Sudden and anexpected deaths due to natural causes in adults. A companson of deaths certified and not certi-Arch Enriron Health 13:236-42, Aug 66.

fied by the medical examiner.

(AEd)

(AEd)

After adjusting for sampling, it was estimated that 1,178 (32%) of the 3.648 deaths to ages 20-64 were sudden. The Moderal Examiner curtifies more sudden deaths in younger ages, in Negroes, in males, and in sudden deaths not due to ASHD. Sudden deaths in the upper socioeconomic classes, and especially those with a history of either a recent visit to a physician, or heart disease, were usually not certified by the Medical Examiner, Adornate studies of guilden death must include deaths not certified by the Medical Exeminer, 11 tables, 20 references.

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Of the 322 continumatic deaths to area 20:39, 10.1 (31%) were sudden and unexpected. Such deaths wore more common among Negroes and among males. Alcoholism and fatty liver was the leading cause (28%) of sudden dentlis, while 22% were due to ASHD 6 tables. 26 references. (AEd)

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A review of mortality in New Zealand and a discoration of lunitations of the data, Methods used for enumeration of population and factors that have altered age and sex distributions are described. Much aging his occurred over the period of the survey, and further aging is predicted. The standardizing procedures needed as a result of these changes are considered. I table. 4 flaures. 23 references. (AEd)

#### 379. LANGREDG, R.

Homicide in the U.S., 1950-1964, Vital and Health Statistics, Seres 20, No. 6, Oct 67,

Mortality trends from homseide by age, sex, and tolor for 1950-64 and homicides for 1959-61 by merital status, nativity, and apographic area. In 1964 homicide was the second leading couse of death for nonwhite seales and females aged 15-24 years. Homicide rates increased from 1 per 100,000 in 1900 to 9.8 in 1933, declined to 4.5 in 1955, and rose to 5.1 in 1964. Infuntiesde has doubled same 1957, Nearly half the homicides were among ages 25-44. Rates were higher among mules than among females. Ago-adjusted rates show little difference between metropolitan and nonmetropolitan countros or by naturity of the white population, By martal status, divorced persons have the highest rate, and married the lowest. 7 tables, (AEd)

132. LAPUSAN I. Morbidity and mortality in the hospitals of the SR of Rumanu in companion with the morbidity and mortalty of the population of the whole country.

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Recent epidemiological surveys of leukemia tend to favor the hypothesis that loukemia may be infectious. "Clusters" of lankensis cases have been observed in many areas. In this study 131 cases of leukemia were surveyed to pinpoint residence in Hawrii, and to determine if any "clusters" or say high-risk areas of loukemia as to time or place were found, I table. I figure. 10 references (AEd)

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> A significant association has been found between death rates from mallenant recolusins of the broast in women and environmental temperature in different countries. Since diet should be influenced by environmental tomperature, the consumption of various dietary constitsents for all available countries (UN 1964) were exsmined-24 countries from Europe, Asis, and South America. A highly significant correlation was found between the consumption of fats and oils and the doubt rates from acoulasms of the breast, overies, rectam, and lenkomis in agus over 55. The correlation between egylreneigntal temptrature and fat consumption was less sienificant. A novible relationship between the cholestered and elsolesterolesnic constituents of diet and death rates from neoplasms of the breast is mggested. I table. 7 references. (Ed)

382. LEA, A. J. Relationships between environmental temperature and the death rate of women from necessaris of the broast. Nature (London) 209:57-9, 1 Jun 66.

For Norway, Supplett, Scotland, and Eucland and Wales the death rate from mondames of the breast is closely correlated with the mean average temperature. This investilaction has been extended to all countries for which comparable data were available. The roton average temperature was plotted against deaths from cancer of the brenst. There seems to be a negative correlation. Two factors which may influence the incidence of breast necelarms have been investigated fluctation and social conditions) but these did not seem to affect a seasonal environmental temperature Incidence. I table. I fieure, '13 references, (Ed)

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Deaths from neuroblastoms for all sees and both sexes are more common in the summer than winter months in England and Wales The summer excess in mortality for all nations is 32%. The seasonal nattern may be due to a physiological mochanism which influences the activity of otrtam forms of neoplastic disease. Dates of diagnosis of 72 cases of neuroblastoms in Scattle, Washington, slow that there were 5.7% more duamoses as the months of April-Seutember than October-March, The number of duaths from neuroblastoms by are and by season, and by surely months of nee of children are given. 5 tables. 2 funites I reference. (AEd)

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384. LIM, L. E., TAN, E. C., MICHELENA, C. T. Childhood mortality in the Philippines J Phologo Med Ass 41 304-12, Apr 65

Children ages 1-14 constitute about 43% of the total population of the Philippines Death rates by age of the child are shown for 1962 for the country, for regions in the country, for groups by degree of medical case reectives), and for neighboring countries. Education of reothers in public health measures and immunications could reduce persentable deaths. 11 tables. 1 figure,

Linformee (AEA) 385. LOFGREN, S. (Editor) Proceedings of the third international conference on sizcoldosis, Scot 11-14, 63. Acta Med Spand 176: Suppl 425,92-177, 64.

> Included in the conference were 5 sections on the coidemiology of sarcoidosis: (1) methodological aspects of mass cliest radiography, (2) providence of pulmonary surcoldous studied by mass chest rulingraphy, (3) regional reports on sarcoldosis provolence (consisting of 29 reports from various countries of Europe, South America, Asia, Africo, and U.S.A., based mainly on mass che x-ray findings), (4) prevalence of surcoidosis in autopa material, and (5) compulsory notification of sarcoklosi Tubles, (Ed)

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Study of atheroselerotic heart disease (AIID) mertality in 15 Furoscan countries and comperison with their food consumption patterns. Fat and corbohydrate con sumption does not consistently increase with observer increases in AHD mortality in each country, suggesting that other factors must be considered in AHD eticlopy 3 tables, 2 figures, 34 references, (Ed)

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> Deaths from leukemia and lymphoma occurring in a metropolitan area over a 10-year neried were presented by

spatial precurely unto MD pairs. The temporal distribution of paired diedes received in excusive membro ocustume, 6-8 years spirit. This excess was not found among control dealth subside by spir, see, me, and year of death. Although texteens spirite, the employed and paired paired produces and paired paired and the paired paired paired paired paired paired and received paired paired paired paired paired paired included the paired paire

388 LYSTER, W. R.
A reverse correlation between the sex ratio of live bertiss and the death rate from malignant recoplasms.
Med J Aunt 1 1259-60, 24 Jun 67

Chargest in the sex ratios of the bifuls on the U.S. are followed 5 years later by charges in the sech rate from malignant sequents A rate in the sex rates (and the sex rates) and the sex rates (and the sex rates) are sex rates (and the sex rates). The sex rates (and the sex rates) are read to the sex rates (and the sex rates) are read a consistently high death rate for the sex rates (and the sex rates) are rates (and the sex rates) are read a consistently high death rate for the sex rates (and the sex rates) are read a consistently high death rate for the sex rates (and the sex rates) are read as a consistently high death rate for the sex rates (and the sex rates) are read to the sex rates (and the sex rates) are read to the sex rates (and the sex rates).

 MACDONALD, E. J., WELLINGTON, D. G., WOLF, P. F.
 Regional potterns in mortality from cancer in the United States

Cuncer 20:617-22, May 67.

(Ed)

A study of U.S. ago-adjusted exacer detable sales, 4046-59, showed storing regional patterns in the level of death rates and as their sensition over time. Marked officences in race and set were found in the death rate for each site, ily correlation analysis, relationships between various pressay uses of cancer with respect to their regional most takey patterns were derived, Simbinutes in the contract of the con

MACDONALD, W. C.
 Gastric cancer asseng the Japanese of British Columbia:
 Distary studies,
 Council Concer. Conf. 6, 451-9, 66.

The distary liabits of eliaby Japaness who sugarated to Creater Vanceuve near 3.5-53 years gave see compared with those of non-Japaness subjects of smilts age and states, Japanese cell such more fain and rice, pickled and sally foods, and less beef, postates, bread, salls, and partice career more, Japaness of British Columbia and the Smire of Washington is three times as high as in the general population. 3 liables. 3 figures. 13 references

 MACPHERSON, R. K., OFNER, F., WELCH, J. A. Effect of the prevailing air temperature on mortality. Brit J Proc Soc Med 21:17-21. Jun 67.

In an institution for the agod and chronically ili, the mortality for all ages was bast (14% below the annual daily average) when the 3:00 p.m. temperature was 70:79°F. At 50:59°F deaths were 19% above and at

\$9,89 Ft, 13%, show the sented duly sweaps. The effect of mecessive but days appeared to be enumistric to effect of temperature first became planty ordient as 70 years of age and account discretifier with investigayears of age. In relatively midd elimate conditions yeavening, the effect of unforcable temperature was small, possibly having some year in 63% of all deades. 6 tables. 7 effectivence. (A)

392 MANCUSO, T. F., EL-ATTAR, A. A. Morinhty patterns in a cohort of asbostos workers, A study on comployment experience. J Ocean Med 9:147-62, Apr 67.

A consolor of 1,162% white males and 228 white females employed in an absence manufacturing plant in 1988-29 (considilated through Social Security meeting has been security as the consideration of the consideration of the consideration of security meeting to develop expensive from meter 2 years to 17 or more. The going with least than 2 years opensive or was not as in internal coatrol. There was a consistent increase in the average monitality rates as committee unpolyment experience control of the server of the consideration of the consideration of the server of the consideration of the consideration in the consideration of the con

 MARTIN, D. C., CHIN, T. D., LARSEN, W. E. Leukeuila and Tymphoma. An epidomiologia study in three midwestern states, 1950-1959.
 J Kansas Med Soc 67:361-5 Passins, Jul 66.

A 15-year study of leakunda and related neephons in Kaman, Okishom, and Misseni tonou [1974] casa in distance through the control of countries with high inedexen was not sufficient to any open control of countries with high inedexen was not sufficient to any open control of countries with high inedexen was not sufficient to distance with the countries of the co

MASI, A. T., DIANGELO, W. A.
 Epidemiology of fatal systemic selecosis (diffuse selecosis denus). A 15-year survey in Baltimore.

 Ann Intern Med 66:870-83, May 67.

An optional edge survey of fault selectederma in Bullistone consovered 55 cones, 1949-1958. Two central groups was selected from death certification. Survey of the control of the control

Y. J.T.

in the U.S., 1950-1964.

of Fleath Statutes. Series 20, No. 5., Aug 67

though suspected of being understand as a fount, has been among the 12 leading comes in for the past 10 years. Trends for suspide are found in east for age, once, sea, murtial status, low, groups are examined. Prourses are more featured for commutage grounded than any other Stations are more frequent in the groups, among the more older services.

Stiliedes are more frequent in the speing, among for the white population, among older persons, clivected persons, and in the West. The speins suited rate was the same in 1964 as in 1950. (C-specific rates show upward trends for the r stind middle ages, with a downward trend for the [OS. 7 tables, (AEd)].

JP UJI, H.
S Of factors in lung cancer mortality evaluated in

ofecture. of (TOKYO) 72:44-6, 1 Jan 66. (JAP)

;tish sammary. JFUII, H.

is of factors in the mortality of gastric and duoloor in male evaluated by prefecture. of (TOKYO) 72:181-6, 10 Mar 66. (JAP) (Hish summery.

ARD, J. E., HAMMES, L. M., KESTER, F. E. ty due to heart disease among Alaskan natives,

"Aft Rep 82:714-20, Aug 67.

The deaths due to heart disease (RCD 410-443),
S., among Alaskan Aharti, Escanos, and Indians,
S., among Alaskan Aharti, Escanos, and Indians,
Oggraphic near, and when classification. Data were
reckt with overall U.S. rates for 1960, and with
plaid and and othnic designation within the State.
Ity rates, rescriberly, for Alaskan natives and the

cere 2.4 and 5.6 per 1.000 for miles, ages 46-64; nct 33.1 for miles 65+; 1.4 and 2.1 for femiles 50-64; and 14.7 and 24.2 for femiles, 65-8 easiers and for geographic difference ausst await furvertigation. 6 tables. 1 map. (AEd)

RROLL, I.

"estraents of morbidity and mortality related to air on. "offur Contr Ass 17:203-9, Apr 67.

RROLL, J., BRADLEY, W.
exportality as an indicator of health effects of air

F Pruble Health 56:1931-47, Nov 66.

nation of tool debeth in New York City by day of carce down periodic peaks in mornity associated control peaks in the property of the pro

400 MENOTTI, A., NATALE, M., PUDDU, V.

Isomortality for cardiovascular diseases. Attempted application to Italian areas of a new mortality study procodure. Chore Circ 50:1-27, Feb 66. (IT)

Application to the "regions" of Italy of an analyticstatistic method occsented by Joossens, which permits the study of mortality from degenerative cardiovascular diseases as a function of upe, and the superation, within ourtain limits, of the two basic components of death, the genetic factor, and the factor due to the environment. It is possible to obtain, for each remonal population, an index "b" which is probably related to the generic resistance against mortality for that disease. With further proendures, the age of isomortality can be calculated, that is the age at which the differences of mortality among several populations are at a minimum. The trend of theoretical death rates at the age of isomertality should be the best way to evaluate the relative importance of factors due to the environment, and to explain the differences in mortality among several populations. Results should indicate the greater suportance of the acquired factors than of the genetic factors in determination of cardiovascular mortality, or at least of its interregional differences in Italy. 7 tables 11 figures. 6 references.

154. MILLER, F. J.

Childhood meebidity and mentality in NewCastle Upon-Tyne, further report on the dicussed family study. New Eng J Med 275:683-90, 29 Sep 66.

 MONTENEGRO, M. R. Canear of the gestrointestinal canal in Sac Paulo, Brazil. Has Concer Inst Monogr 25:249-57, Jul 67.

Observed frequencies of cancer of the gustralineation to mixed mixed principal candidate, and only in relation to other Latin American cities studied, but also when compared with non-Latan American cities. Two sets of data from 500 Paulo are presented: the first based on study of contract contracts of the contract of the contract of deaths: occurring in the city, 1962-63. Canninous meldeants occurring in the city, 1962-63. Canninous meldeants occurring in the city, 1962-63. Canninous meldeants occurrence.

 MORIYAMA, I. M.
 The change in mortality trend in the United States. Vital and Health Statistics. Senses 3, No. 1, Mar 64.

After a long pound of rapid and solventated devices, the other size has executed the point where (triplers yield deceases cannot be intelligented. The roosel changes in empeter imparted by the calculation a detail rate for the infective flowage gradualty desinitioned as the proportion was to the contract of the calculation and the proportion was to the contract of the cannot be contracted by the carriers mustally breast of diseases and locationars which commentally breast of diseases and locationar which comsamily the change diseases and accordant and their visilation. The direction or the size of shange of lines trends have. The direction or the size of shange of lines trends have the direction of the size of shange of lines trends have the direction of the size of shange of lines trends have the contract of the size of shange of lines trends.

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Differential mortality in Israel by socioeconomic status Eugen Quert 12:227-32, Dec 65.

It last in the past been corroborated that socioconomic status (SES) and mortality are negatively correlated A poversal of this pottern appears in Israel in 1961-62 for the first time. Death rates are considered for 5 SES classes recognized in Israel Determination of class is based on year and country of origin of immagration to ismel. Reasons for differences are discussed. 2 tables. 10 references. (AEd)

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Assistandardized and are-specific mortality rates for the most important group of causes of death recorded in the GDR for the last 10 years were studied. A slight morease was seen in total mortality possibly because of the higher rate in older ages from diseases of the central nervous system, malignant neoglasms, and cardiovescular diseases. Mortality from infectious diseases has decreased. Mortality among women, babies, and younger are groups continues to decline. Accidents and diabetes show increasing mortality rates for some age groups. (AEd)

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Memphis, Tennessee, 1920-1960. J Chronic Dis 19:847-56. Aug 66.

Data on hypertensive discuse and pophritis a or contributory causes of death. Whatever of hypertensive diseases, it would seem present conditions of human resistance and a these diseases are losing ground in Memphis Perhaps an important factor in their decline : influence of selective mortality and of enviro provements that tend to more what may be specific human resistance. The data from th study lend support to ideas that: (1) much formetly called nonbritis is now called hypsome form of hypertensive disease, and ( been a long-term decline in mortality from I disease similar to the pattern of the infectiou: figures 6 references. (AA)

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Amer J Public Health 57:1290-99, Aug 67. Of 50,000 male former students who had a University of Pennsylvania or Harvard Un tween 1916 and 1950 and submitted to case cedures, 171 are known to have died from a thirds of these deaths were ascribed to subm intraccrebral hemorrhage, and the remainder sidered occlusive in origin. 4 control subjec stroke decodent were chosen at random from ing classmates of equivalent age. Comparise taking and other college records of deceden trol groups identified 7 characteristics pred fatal stroke: eigarette smoking, higher bloo increased body weight, shorter body stature, e tal death, heart consciousness, and nonpurtivarsity sports, 6 tables, 3 figures, 4 (AA)

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J Postgrad Med 12:99-111, Jul 66 Trends in mortality nutterns of Bomboy have lyzed and the 10 leading causes of death in ea sex group defined. Considering the cosmopo acter of the city where 1% of the Indian poresident, mortality risks may be considered a estimates of the true paremeters in urban Indi causes of death by ago and sex for 1941, 1951 for Bombay, and for selected countries in oth the world are compared, 14 tables, 5 a

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Indian Heart J 18:131-9, Apr 66. A cardiovascular mortality rate of 137 per 100 station in Bombay City (1962) is considered a: able estimate of the true parameter for urbas has been shown that the stone rise in card mortality cannot be completely accounted f proved methods of diagnosis or demographic t the see distribution of the population. An epid investigation is recommended to study the posture in Poosa. 9 tables. 7 references. (AF

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### Increasing autopsy medicate of coronary heart discret in women. Arch Intern Med (Chango) 118.436-45, Nov 66

An epidemiologic study of commany heart diences (CIII) and occuracy artery atheresidence to the chaige among white women in an autopry population. There was no the command of the command

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Immediate recrisitiy (death within 2 months) was 38% among 200 shother in prants hospitalized duming 1954-58 andre mitel aware proceeds infaretion and 55% among 25) with whospital infaretion. The Syrur enviror areas were respectively 38 and 25, Clinical findings are discovered to the state of the state

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Data for 1359-1964 demonstrate that the proportion of all childhood morthally due to arobberts increase nightly made in the state of th

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Do Med Censuls 94.442.8. Apr 65. (FR)
The "Registre des Tenneurs de la Frovince de Québec"
was founded in 1961. It recovers records from 365 hosversetes; in 1965, 9.323 cess. Tables show the sites of
the converse reported and the sex of the patients; the
to converse reported and the sex of the patients; the
tables show which fatal cancers are most frequent, their
destribution by age and by vex. 6 bubles. (AAA)

## PUDDU, V., MENOTTI, A. Ischeme heart disease and cerebrovascular accidents mortality trends in the folian regions. Their relationship to some some sections.

Acta Cerabol (Brex) 21:654-62, 66.

Age-timeletized drath rates for achievine licent absents and contributorsative accordance are present for the 20 takes regions for males and femilies, 1961-62. The higher mortality from achievine heart disease in the constituent commercially from achievine local rates on the constituent of the constituent regions is stressed, which no toyingthe behavior is nood for rates from conferouscendary accordant. Regional income and weitlase address are found to be chearty-citated, expectably for men, to rates for addressing both rates for the constituent behavior disease but not for correlationations.

#### PUDDU, V., MENOTTI, A., NATALE, M. Isomortahity from inchesses least diseases in Italian regions. Att Soc Ital Cardiol 1:117-8, 66. (IT)

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The origin, dordsyment and methodology of a suspecialization existent project which is intensecond in scape in described. It is usus objective a the provision of securities of the control of the control of the control and computability. It is else (Ropeas, Brittel), call cannot, Guntamba (Cy, La Buta, Lima, Meaker Ch), and cannot, formation (Cy, La Buta, Lima, Meaker Ch), and cannot, formation (Cy, La Buta, Lima, Meaker Ch), and cannot, formation (Cy, La Buta, Lima, Meaker Ch), and cannot control of the control of the control of the control control of the control of the control of the control of the cannot control of the control of the control of the control control of the control of t

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Ethnic differences in cancer in Huwaii. Malit Med 131:222-33, Mar 66.

Cancer of the thoracts, lung, and breast in llawell were studied from longited records for 1947-54 and the Hawaii Tannor Registry Report for 1946-62. Average death inside for both soit of years are conspired to year and ethnic group—Hweiling, Japonese, and Cascassan The Japanese life did the laphest incidence of sciences for the control of the laphest soil of the laphest soil of cancer of the bronchi and lungs and breast, but over tenns to relative incidence appears to be changing among the 3 cition, groups. Possible effects of diet, genetics, smoleing, and breast feeding are discussed and results of other studies are cited. 5 tables. 4 figures. 21 references (A) d).

185 R14D, D. D. Strifes of discove among magaints and netwo populations in Great British, Norway, and the United States | Richaround and design

Ver Conv. v Intl Venous 19 287-99, Jun 66 420 Rt ID, D. D., ROSE, G. A

Assessing the comparability of mortality statistics

Birt Med J 5422 1437-9, 5 Dec 64.

A method of studying death cratification is that in differ-

ent countries is described. The results obtained in a pilot impage, among hospital physicians in Norway, the Danted Kingdom, and the U.S. are discussed in relation to differences between these countries in the reported death rates from broughts and arternoclerotic licent disease. 2 takes. References (AA)

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> A congrature study of the executary in throne obmerrice fundament inflower has been consisted in 18th contribution of the contribution of the contribution of the contributed to the study of philocosary function in recent many contribution of the contribution of the contribution of 1940. After a year, the mentionly rate was 53%. Those the contribution of the contribution of the contribution of the study battle form of the contribution of the contribution of with cloness characteries philocosary disease who exists that the contribution of the with cloness characteries philocosary diseases who exists with cloness characteries and the contribution of the with cloness contribution of the contribution of the with cloness contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution of the contribution of the study of the contribution of the contribution o

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Saice 1955, Iceland her hind a Mational Cancer Registry. Crancer anorthity in Iceland is lower than in most west Caropean consister but higher than in Mosway and Succlea. Mearly 2/5 of cancer mortality in makes and 1/2 in females in cowned by gastine cancer. Conter of the expeliging and stomach are high and cancer of the colon and rectum are low. Intellector of cancer by winous sites and rectum are low. Intellector of cancer by winous sites to the content of the colon of th

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sonal pattern similar to that for cases of proven cardiac

infastion. The modwater peak ranges from 20% to as much as 70% above the indiamment trough. The winter coxess of duratte in any particular group is very highly correlated with coldarion but not to a significant algorithm of the other are polistion or randful. A full in intentiting with near the significant algorithm or randful. A full in intentiting with near the significant significant countries are supported to expect and range, although the magnitude of the effect, distanceded exponentially. It appears that classifies the moderate of the control of the effect of the significant signif

424 ROUQUETTE, C., CORONE, J. Recent trends as the mortality of children from 1 to 14 years of age. Bull Jun May Source 20 183-202. Manchag 65 (FB)

Death rates in France for children 1-4 years are comprored with those for children 5-4 years. Infectious, respiratory diseases, and congenital maifornmations followed by activities the mails caused of death in the younger group. For the older group, the feath rates in govern are group. For the color group, the feath rates in govern are maiformation decreased in amportance as caused of childland control of the companion of the color of the color Some consequences are made with other European contricts. 15 tables, (AEB)

RUCKNAGEL, D. L.
 Epidemiologic and genetic features of lenkemia in the United States.

 Men Zeal Med J 45: Suppl: 869-74. Dec 66.

The U.S. is among the countries with the highest inported incidence of leukenia, exceeded only by trans, Demonrá, Sweden, and New Zenkand, Intidence in the Demonrá, Sweden, and New Zenkand, Intidence in the with the population deemay of physicalini, them and with the population deemay of physicalini, their morality ration, 10.3. leukenia death rates, and the genetic aplation, Epidencodogy, appendix specific morality rates, 10.3. leukenia death rates, and the genetic aplation of the countries of the countries of the countries of exceeds. 2 Inserts. 40 references. (Eq.)

 SAUER, H. L., PAYNE, G. H., COUNCIL, C. R., Cardiovescular disease mortality patterns in Georgia and North Carolina.
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White men, ages 45-64 and 35-74, in the Southern Blue Ricke area and adjacent countles of Georgia and North Caroling had the lowest death rates in these two States for all cardiovascular diseases, coronary hunt disease, and all causes combined for 1950-1959, resembling the low rates in the U.S. Western plains. The highest rates were in Savannah, Augusta, and Raleigh-penerally twice as high as in the mountain area. This geographic pattern was similar for the years 1950-59, 1949-51, and 1959-61. The pattern observed for ages 65-74 was also seen for ages 55-64. Thus, the patterns do not appear to be the result of random error. A marked association between death rates and soil types was found in Georgia. Also a high correlation was noted between death rates For coronary heart disease and long cancer. 5 tables. 4 figures. 33 references. (AEd)

 SAUER, B. L., RICKMAN, H. L., PAYNE, G. H. Mortafity patterns of middle-aged whites in Nebraska. Nebraska Med J 51:393-8, Oct 66.
 Middle-aged whites in Nebraska have find perdistently

fow death rates for many years, for all courses as well as

for the cardiovascular diseases. The causes for the lowrates are anknown. There is industrial ordence that the cardiovascular and the cardiovascular than any appreciable extent time to othere composition. These findings provide a challenge for further epidemiological study. I table 3 Bigures. 19 perferences. Cardiovascular than the cardio

#### SCHINZ, H. R., REICH, T. Changes in cancer risk in Switzerland during the last ten years. (Part 1 of 10) Schuset Med Weeler 94:1741-3, 12 Dec 64 (GER)

Change, as the cancer rok in Switzstland over the last decode are discreted seed incurved. Some organs whow a significant full in cancer incodence in all nee groups. Other organs show a facilitie in incidence in the younger age groups and a rise in colder people. The theory of "smoothed" age discrete poorlion, whereby the upe at which cancer cours is determined not by the age of the organism but by the way of the contraction of

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A study of geographical publicage has been carried out in 15 countries in subtiline correlation between cases and in 15 countries in subtiline correlation between cases measured either by earliess mortilary or absolut generation. This study confirms that a relation cause between concert of the upper acco-depaths regan and of the contribution is consistent for the production between the contribution is consistent for the production of the contribution is consistent for the production of the contribution is consistent for the contribution of the contribution is consistent with contribution of the contribut

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Sourcever, canore mobilely merces have been done as Dommuk and U.S. Since 1924s, sourcealled data on cancer morehisty in 3d countries have been done to cancer morehisty in 3d countries have been debuted on the contribution of the countries of the same of 1966 of 1840; The raise among makes are high in America, Southerd, and I point in Pennigh. In America, Southerd, and I point in Pennigh in America, Southerd, and I point in Pennigh in America, Southerd, and I point in Pennigh and America, Southerd, and I point in Pennigh and America, Southerd, and I point in Pennigh and America, Southerd and I point in Pennigh and America, Southerd and Pennigh and America, Southerd and Pennigh and America, Southerd and Pennigh and Pe

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## 432 SELTZER, C. C. Some re-evaluations of the build and blood pressure study. 1959 as related to ponderal index, sometotype

New Eng J Med 274 254-9, 3 Feb 66. An analysis of data (for men) from the "Build and Blood Pressure Study" of 1959, on mortality ratios by ponderil undex has shown that anytead of a straight line relation of morestug mortality with increasing height and weight, there is a curvinuear exponential relation of mortality with linearity and laterality of body form in which there is no significant excess of actual mortality over expected, until the level of extreme laterality is reached. Men with extreme laterality of body build are prodominantly frankly obose. Bolow extreme laterality the trend toward increased mortality is low, Physique in the sometotypic sense is an important factor in health and longessty. Life inturance tables are musleading and shruld be discouraged. Obesity may be blamed for discase, when it is scally body bruld. There is a pressing need for the accumulation of more descriptive body build data. 1 tuble. 1 Hgure. 28 references. (AEd)

### 433. SHIELDS, L. M., NAYLOR, A.

cardiosystellar danilys to total mortality for five ethnic groups, Rocky Moseston Med J 63:54-7, Sep 66.

Ambysis of conditionsensite deaths, 1954-1963, negactathat the nent-Anglo of thick agencies my account in principal for the bester morthalty from those diseases in New Mexico, Dark rates among the 5 New Arvice estimate groups differed significantly. The middense of cardiovascular deaths, in a personal part of the other populsions sike at the beganning of each deathd, it significantly higher in Anglo maket gas 50 mid over. Part up 40, the proportion of deaths from all consts is also adjects for Auglos mid. 2 black: 5 stratement.

Cardiovascular mortality in New Mexico, Relation of

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#### hadex rates for comparing the importance of arterioscientic and degenerative heart discover as a cause of death. Amer J Med Ser 250:395-401. Oct 65.

Because of the stopp size his mortality from a attendencies and degenerative heart theories with advancing age, the deaths occurring at old age have a dorstanting age, the deaths occurring at old age have a dorstanting time countries of the countries of the countries of the countries of the countries of an elifercent times may insept comparability of the crush rate to a consulerable degree, and this office is not allimitated for textual rational.

others, the mortality at models and early advanced age is poorly reflected in the crude rate. Mortality rate for the age penod 35-64 years would serve much better than the crude rate as an index for judging the compagative importance of artenoselerotic and degenerative heart discases as causes of death 3 tables, 3 figures, 2 references (AEd)

435. SIGURJONSSON, J.

Trends as mortably from cancer, with special enference to gavene concer in Iceland

J Nat Cancer Inst 36 899-907, May 66. Revised statistics on cancer portality in lealand were obtained by examination of all death records with cancer deaths according to the 7th Revised International Classfication of Diseases. These lists were compiled by the district physicians beginning in 1932 to 1963. No real storease was found to overall cancer mortality during the period studied. The increase in standardized rates is explanted by understruction of old people in earlier years. Jorland still has unusually high gastric cancer rates, olthough a downward trend has started recently. Rates for gastric cancer in both sexes are appreciably lower than in Japan and Chile, but the rate for males is higher than in any country in Western Fusions, and the rate for females is matched only by Finland and Austria 4 tables. 3 figures. 8 references. (AEd)

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in first degree relatives of 121 men and 96 women with ischemie heart disease J Med Genet 3:239-57, Dec 66.

Health experience of all adult first degree relatives of [24 men and 96 women with rechemic heart disease (IED) and 104 men and 105 women controls is preceded. Causes of death and morbidity have been decumented and causes of death classified by Rogistear General Staff, using enteria current at date of death. A commerison has both made of death from IHD in relatives and in the general population in England and Wales, with relatives of IHD petients Relatives of patients had 5-7 times the nsk of mortality from IHD as the general monulation. Evidence indicates that the increased risk may be partly due to senetic factors. 4 tables. 7 references. 2 aupendoxes, (AEd)

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Social stress and cardiovescular disease. Factors lavolving sociocultural incongruity and change A review of emperical findings Milbenk Mens Fund Quart 45:Suppl:23-39, Apr 61

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By uge distribution, carcinoms of the long mortality among moles is at a maximum at ages 60-74. Maximum for other cancer sites is at ages 80 or older. Increase in mortality from cancer of the lung seased after 1945 for ages 40-45, after 1950 for ages 45-49, after 1955 for ages 50-54, and after 1960 for agos 55-59; the increase is ending with the cohert barn in the early 1900's. Assons worses, it is at a much lower level than among men, but increases with advancing age. Results are compatible with an association between smoking and cancer of the lung, since men 60-64 years of age have been exposed to current patterns of cuarette smoking all their lives. Smoking as now decreasing slowly among men but contimues to meresse among women 2 tables. 8 tiquies, 18 references. (AEd)

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Mortality from utenne cancer (mainly cervical) has declined over the years in the U.S., more for white than for nonwhite women. Among the latter, it remans the chief peoplestic cases of death. Data on prevalence and incidence of clinically duegoodd invaves carcinoms of the cervex see not available for the U.S. as a whole, so that estimates must be made from studies in states and other subdivisions. Provalence is estimated at £20,000 women with an incidence of about 20,000 per year. About 250,000 women have carcinoms in situ. Prevalence, accidence, and mortality rates are significantly higher among Negro women and lower among lower income women generally. 7 tables 11 figures. 8 references. (Ed)

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Data from birth pertificates of 229 white women dylas from breast cancer in unstate New York at ages 40-44 and a matched positrol group from the same birth colors demonstrated a differential risk of death from breast cancer associated with mother's ago at birth of the study subject. The relative risk of dying from breast cancer increased with increasing maternal age beyond 30 years. This association with unaternal age was independent of buth order and was most pronounced for women who had never married. The breast concer cases also included an excess of unmen born in urban areas, independent of maternal age. No association was noted between death from breast cancer and month of buth or plurality. 10 tables 2 firmers. II references. (AA)

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J Nat Concer Inst 37:369-79, Sep 66. Age, sex, race, year of death, and urban-rural specific loukostia mortality rates for 20,711 leukomia deaths in the U.S., 1950-59, were compared with previous studies of childhood leuksmin by histologic and urban-rural residence. Among white children, when rates exceeded rural rates, but among nonwhites the reverse was true. Except for myelocytic lepkemia, urban rates in whites appear to be increasing with time, but rural rates are declining. Data from the present study and from the studies reviewed suggest that lymphocytic and myelocytic forms of the disease are distinct. A comparison of white and nonwhite mortality rates indicates that myelocytic lenkeenia has a common ctiology in whites and nonwhites, but nonwhites are either not exposed to, or are protected against, agents causing lymphocytle leakenin. (AA)

 STASZEWSKI, J. Breast caneer in different population groups. Novotwary 16 379-84, Oct-Dec 66.

> Data on brasst cancer foquency were reviewed Magor observationes une (1)A way; Dow feequancy of brascustore in Japun and a relatively low frequency in Polars dedictinctly lower, even than 'siland, (2) A higher and feet quency in the urbins and wasfely axes at compactor with rarial and poor erece, (3) Stability of breast cancer frequency in many countries, (4) A higher rate of increase and feet in the contribution of the contribution of the defermance of the contribution of the contribution of the defermance of the contribution of the contribution of the defermance of the contribution of the contribution of the defermance of the contribution of the contribution of the defermance of the contribution of the contribution of the defermance of the contribution of the contribution of the defermance of the contribution of the contribution of the defermance of the contribution of the contribution of the defermance of the contribution of the contribution of the contribution of the defermance of the contribution of

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J Net Cancer Inst \$52;93-7, aug 65.
Age specific insect of high singuists to the U.S. have been congusted with experience response front and U.S. have been congusted with experience response front and U.S. have been congusted with experience response constitutions of the confidence of the property of the U.S. Peter feelvitted from the pattern for his guestian processing processing published file of done freely good to the U.S. Peter feelvitted from the pattern for t

216. STEINMANN, B. Epidemiology of apoplesy

Schwest Med Nucle 96.1733-40, 31 Dec 66.

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Morbidity and mortality in used Partic Recent.

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Cest Zedavi 13-456-55, Sep 65. CC2)

Accident mortably in Caschodevikus of children agad 144 years defined by 375 between 1550-1552 and 1961-1963. Traffic deaths focused during the twee periods from 441(0.00) to 164. Younger children, agard 1-9 had an userased mortality in Storoiden Beltzman, but tolker children hold or contend nate, and are not beyond the act as they had off. These injuries often larges on the state a high leaf off. These injuries often larges on the beauty. The definiting define the state of the sta

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 iffecting the central nervous system in the Runzmian
 Socialist Republic.
 Neurologic (Sucur) 11:343-50, Jul-Aug 66. (RUM)

A study of mortality from vascular corebral losions affecting the central norvous system, 1932-1963, of

specific methodity ratio, 1958-1955, and of data is the smohadity survey of 1939-61. Increasing gravily the mortality from three allectrons is due mainly to team of the again population, and to the contraction of the surgey of the spin, necessity, and to the team of the again population, and to the contraction of the again population, and to the team of the again population, and to the contraction of the contraction of the description in age graphy or our SI/year age. Morkshiry artes Increase paradiol to age, the inmental bring more constituted with age after 53. In mortality and morbality are, in general, higher in regutation, and the contraction of the spin of the size of parameters of the spin of the spin of the size of the size of parameters of the spin of the size of the size of the size of the morbality and morbality are, in general, higher in regulations, of the size o

446. TOKUHATA, G. K.
Epidemiology of cancer of the cervix, IV. Tobacco a
cancer of the genitalla among married women.

Amor J Public Hainle 37:1039-7, Stay 67.

Them the death spiritume of Memphili and Shelbey Cut 66s. Towards. Over enterrul weems who shid of case of the content of the con

 TRACY, R. E. Sax difference in coronary disease: Two opposing vion. J Chronic Dir 19:245-51, Nov-Dec 66.

Coronary heart disease amone U.S. whites, as revealed L vital statistics, increases steadily with ore, and is less all ages in women. These two factual observations in examined. Sex differences in cardiovascular disease deal rates were renewed and analyzed by relating mak female ratios to age and by plotting the logarithm of are-specific-death rates against see. Although the male female ratios reach a peak in miditfo in most sets of data the correspondence of the peak with menopause rather crude. In various nations of the world, the near sex death ratios for "arterioschrotic and dezenerativ heart discree" range from ages 30-35 in the Notherland to sees 55-60 in Japon. The semilogarithmic plots wer very nearly rectifinear under most dispunstances and re verted an absence of an effect by stenogrause in of tars, 5 figures, 8 references, (AEd)

 TRAUGER, D. A. Tronds of ago at death from tuberoulesis. Pub Health Rep 80:925-6, Oct 65.

Takecoulous law changed in its role on a killer in the U.S. in 1910, the modelin age at death of persons with TB war 33; in 1950, 61.5 years. However, TB does extert a life incentening efficie. Medium age at death is given, by sen and color, 1924-1962, and thy sex, color, and life excellency, 1952. For white some, in the life-theritoning of cert of TB to on the color of 25% for normalitie versues, 1952. 2 to 1958. 2 to 1958.

449. TSUKARARA, Y Trends in age-adjusted death rates for 20 causes in 30 countries 1950 to 1961 Tribular I Cup Med 88:385-93, 25 Apr 66.

> International comparisons of mortality, using becamal ago-adjusted death rates calculated for 20 causes in 30 countries, standardized against the total population of 46 countries around 1950. Trends in rates, 1950-1961, and peographical distributions, 1960-1961, are observed The common declining trends in most countries exist in some causes, such at tuberculous, nephritis, and nephrovs. Rates for vescular lesions affecting central nervous system, however, show an increase in some countries but a decrease in others. A marked difference between trends among males and females is found in malignant neo-

erences. (AEd) 450. VODRST VADER, P. J. VAN

plasses, becart disease, and bronchitis 2 tables. 11 ref-Relation between smoking and mortality in the Notherlands dunna 1963. Noderl T General 109 601-8, 27 Mar 65 (DUT)

Some observations on the relationship between smoking and death rates, with special reference to Swoding one Health, the report of the Terry Committee, A causal relationship between smoking on the one hand and june cancer and cheonic bronchitis on the other most now be considered proven. A causal relationship between smoking and coconary disease is highly probable. On the basis of available facts, it is estimated that in 1963 at least 10.519 Datch males died as a result of smoking, s.c. 20% of the total number of men who died in that year. 6 tables. 6 figures. 13 references. (AA)

451. WALLACE, D. C. A study of the natural bustory of cerebral vescular dis-

> Med J April 1 90-5, 21 Jun 67. Findings in a community survey of stroke in Australia for 1957 were: (1) crude medeaco of 3.3 per 1,000 sersons, affecting 7 women for every 5 men, (2) about 1/3 die during the first attack, (3) of the survivors, about 1 in 3 will have a recurrence during the next 2 years. (4) mortality per recurrent uttack remains about 1 in 3. (5) 2 of 3 who suffer I recurrent attack will have enother recurrence within 2 years, (6) 14 months after the completion of case taking, 56% of the subjects were dead, 32% were living and had had no recurrence, and 9% were twent but had had recorrences. 7 tables 9 references. (AEd)

452. WARREN, S., LOMBARD, O. M. New data on the offsets of ionizing radiation of rathclousts

Arch Environ Health 13 415-21, Oct 66 The average age at death of U.S. radiologists in the past has been lower than that of other physicians or of U.S. adult white males. Since 1935 this condence of lifeshortening has been lessened, most strikingly inner 1945, and has disappeared by 1960. Leukemia, though excessive among radiologists, occurs rarely and apparently only after a number of years of occupational exposure. The upe pattern of the incidence of leukemia is quite different in radiologists and U.S. whate males over age 25. In recent years the excessive incidence of leukenus m radiologists has decreased. From these findings, one may conclude that current occupational maximal normassible dose levels provide adoquate protection. 6 tables 2! references (AA)

WERED A

Some characteristics of mortality and morbidity in Europe. WHO Public Health Pap 27 131-48, 65.

Mortality data reflect the diversity of the health situation in Europe: in the North, deaths are principly among older persons: in the South, amone children Data for soveral countries, 1951-52, are compared with 1958-59. The drop in mortality in Europe is essentially due to decrease in deaths from infortious diverses. 6 tables

11 references 454. WELLS, R., KUPKEE, L.

The lost years, important causes of death in Australia. 1963. Med J Aust 2:466-8, 2 Sep 66.

In terms of years of life lost, the important diseases fall into the following groups: (1) accidents, postoning, and violence, (2) diwases of early infancy, (3) circulatory system discases, and (4) neoplasms. A table showing "lost years of working life" is also given. 2 tables.

455. WELLS, R., KUPKEE, L. The safety zones differential mortality rates in Australis, 1961-1963 Med J Aust 2:573-4, 17 Sep 66.

Mortality rates in Australia, 1961-1963. The incidence of many discusor is related to charate, to industrial development of an area, and to specific development of the populations as well as to specific occupations of the popplation. In comparing rates in the country, age and area differences in classification and diagnosis of disease must be considered. 1 mblo, 4 references. (Ed)

456. WEST, C. D. Mortality rates as a measure of programs.

figures. 1 reference. (AEd)

J Pennet 65:1064-70, Dec 64, Part 2 Presidential address at June 1964 meeting of the Society for Pediatric Rusearch, Seattle, Washington, A survey of developments in pediatries during the past half century, with observations on the remons why the mortality rate has not been decreasing as rapidly since 1950 as it did in the preceding 10-15 years. The offeet of medical remarch on the mortality rate and the impact of Foderal appropractions for medical research (begun in 1946) are considered. Today, the primary event in most of the diseases. we are un assinet as so abnormality of the cell uself. 6

457. WESTLUND, K., NICOLAYSEN, R. Strum cholesterol and risk of mortality and morbidity. A 3-year followup of 6,886 men. Scand J Clin Lab Invest 18 Suppl 87:1-19, 66.

The institute for Nutnition Research determined serum cholesterol for 6,886 men, ages 40-59, and working in Oslo. Blood pressure and weight/height relationship were available as co-vanables. The men were followed for 3 years. Coronary heart disease plus sudden death increased linearly with scrum cholesterol. Blood pressure was a less efficient predictor of coronary heart disease

than serum cholesterol. Systoke previous predicted sightly better than distroble. Most with systoke pensione 155 or more had an incodence well above that of other men at all cholesterol levels. On the whole, the results for coronary heart discuss were similar to the results for coronary heart discuss were similar to the results of advanced and the consideration of advanced to the control of th

#### 458. WUST, G.

## Tumor incidence and ago. Z Alternsforsch 18:318-28, Nov 65.

Analysis of cause of dusth data gives, for suffigures unusers, a typical profession sage. This two-bodge not considerable importance to disposed assessment who considerable importance to disposed assessment who contains again 25-38 a sutheration of the presented assesstibility of finales gential pytion to cancer. The profilesrate in pursons ever gas 00 is probably five to uncrired disposits and to prior importing Insoferor of malignant are in purson ever gas 00 is probably five to uncrired disposits and to prove importing Insoferor of malignant interface of the property of the contraction of the property of the contraction of t

#### WYNDER, E. L., IIYAMS, L., SHIGEMATSU, T. Correlations of international cancer death rates. An epidemiological exercise. Caucy 20:113-26. Jan 67.

The rolationships of 12 pairs of international cancerdeath rates have been examined with scatter diagrams and the magnitude of the association has been evaluated with mak correlation coefficients. An epidemological interpretation has been attempted in gate of some obvious methodological limitations, since these data ray serve as a useful tool to substantiate existing epidemiological theory and provide etiological clues. Several significant and unteresting relationships are discussed. The complications of a correlation are discussed. It at the 14 figures, 20 references, (Ed.)

#### WYNDER, E. L., SHIGEMATSU, T. Environmental factors of career of the colon and rectain.

rectum.
Cancer 20 1520-61, Sep 67.
In 1964, 41,763 persons died of cancer of the large

bowil (24% of all entere deaths). A retrospective meestpisten of 791 potents such cancer of the large bowel (458 were mm) plin age-austiched controls. Incedence was related to obsile; group, noticeconomic satus, dicitary factors, obestsy, familial aggregation. Other comparests of control of the large potential aggregation. Other comparests of control of the large bowel, i.e. colon said rottim, are chologically dissanilar. 24 tailds. 19 figeres. 210 references. (AE3)

#### ZEIDBERG, L. D., HORTON, R. J., LANDAU, E. The Nistrelle air pollution study VI. Cardovascular disease martishy in relation to air pollution. *Arch Emproy Health* (Chisago) 15:225-36, Aug 67.

A study of uardisvasculor disease mortality in relation to air pollution and socioeconomic factors: for Nativille SMSA's, 1949-1960. For containst sir pollution experience, socioeconomic studius was investely related to experience occurrence in the socioeconomic studius was investely related to experience occurrence o

#### A. FERTILITY

462. ANONYMOUS. Baby boom coding

Statist Bull Metrop Life Insur Co 1-3, Oct 66.

The birth rate in 1965 in the U.S. has declined, continu-

into the trad since 1957. Much of the destine is due to a decline in birth rates for second send higher order births. Marriages among WMI babies and dealt deferencies for men with children should result in an increase in higher order births and brighting the decrease in higher order births and bringing the total birth rate to record highs in the 1970s, (Ed.)

463. ANONYMOUS.

Population gams in the United States and Caracta.

Statist Bull Metrop Life Inner Co 48:3-6, Jan 67.

Increases in the population in 1966 through migration and births are analyzed by state (U.S.) and province

(Canada), 2 tables (Ed)

464. ABU-LUGHOD, J.
The emergence of differential fertility in urban Egypt.

Milbank Mess Fund Quart 43:235-53, Apr 65, Part L. Egypt has experienced a radical drop in mortality rates unsentehed by any docrease in feetility. According to demographic theory, the beginning of an overall decline in fortility will be signaled by agnificent fertility differences by sociocconomic class in the urban segment. In the census of 1960, data are given on the number of live born children, by age and education of wife, and occupation of husband. These data are analyzed for Cairo, and they substantiate the emergence by 1960 of staniforunt fertility differentials. If the present differentials by oducation and occupation see sustained in the coming goseration, a gradual decline in fertility is anticinated as adjugation becomes more widespread and as norms after in conformity with those stready well established within the letter-education and upper-occupational urban classes. 7 tables, 3 flaures, References in fontnotes. (AEd)

465. BAJEMA, C. J.
Relation of fertility to educational attainment in a Kalamazzo rublic school papalation: A followers study.

Eurow Chart 13:306-15, Dec 66, A followup of 957 native whole individuals, born 1916-1917, who took the Terman Group IQ Test in the 6th grade in the Kalamazoo public school system. The data were divided into three educational attainment groups (6-11 years, 12-15, 16 ples). The relationship between educational attainment and fertility is negative for females and positive for males. The fact that the relationthip between IQ and fertility as measured by correlation and regression coefficients was positive for each of the 3 education groups, while the mean fertility of the 3 education groups was negatively related to aducational attainment indicates that the use of fertility data, subdivided into 12-15 years and 16 plus years, to estimate the relationship between IQ and fertility may lead to erronoous conclusions. 4 tables. 18 references. (AEd)

 BLAKE, J.
 Demographic scence and the redirection of population policy.
 J. Chem. Dis 18, 1181-200. Nov. 65.

To date, efforts at curtailing population growth in doveloping countries have been bipolarized into the 'economic development' approach, on the one hand, and the family planning approach on the other. The first sees decreases in family sue as the long-range resultant of a complete socioeconomic overhauling which, in turn, leads to a desire for fewer children. The second overlooks the institutionalization of reproduction entirely and assumes that education and communication regarding birth control will eventually reduce hirths to a level in keeping with low mortality. Regardless of specific paths taken by population policy, its designers cannot afford to overlook the lesson already available in the substantial family-day desires and actualities to be found in presently industrial countries. Modernication and birth control alone will clearly not bring family size into line with modern levels of mortality unless this reproductive institution is itself modified to make the small family a way of life. 6 tables. Footnote references. (AEd)

467. BLAKE, J. Family size in the 1960's-a buffling fad

Forest Owert 14:60-74, Mar 67. Crude birth rate decime in the U.S. began in 1958 and continued through the first part of 1966. This paper disputes the aliegation that demographers us a whole did not anticipate and do not understand the present drop in birth rates. The notion that family size has become " subsect of fad and fashion" is evaluated by analysis of data on ideal family size from the 1963 and 1966 Galhip polls, which actually show no noteworthy shift in family size ideals among white Americans. The metri ideal family size among women varies between 3.4 and 3.6 children. Catholics now show desire for fewer children than formerly and it is among them that the most noticeable drop in birth rates occurred in the 1960's, If family size has become "the subject of fad and familion" in U.S., evidence for this thesis must come from sources other than the actual fertility or reproductive ideals of Americans. 12 tables. 31 references. (Ed)

 BOGUE, D. J., FARLEY, R.
 Population growth, problems, and trends in the United States,

Amer J Public Health 56:Suppli 85-93, Jan 66.
Past growth of the U.S. population and major trends are
relevand. It is estimated that even if the current high
latitude declines, the population will grow rapidly. If,
among this serious population projections that the Commanature and the major, the projection of lower fertility is
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and 40 years. Charge into the will be 300 million in less
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than 100 years. Charge growth are
distances of table 56 millions in the serious consequences.

CAMPBELL, A. A.
 Fettility and family planning among nonwhite married couples in the United States.
 Eugen Gussr 12 12-343. Sep 65.

Nonwhite couples have lade and expect more buthis than whate partly learnee of the unawally high fettility of a unionary of nonwhite couples who line in the real South, and partly because of the moderately high fettility of a unionary of nonwhite couples with no Southers farm to the couples with no Southers farm to suggest of high and southers farm to suggest who was not all expect and the sum number of highly as union with the couples. These differentials suggest that is the limitance of Southers must justice of nature, and childbearing dimensions. One for the part of the couples with the coup

 CAMPBELL, A. A., CLAGUE, A., GODLEY, F. Nutality statistics analysis, U.S., 1964

Visit and Holdin Statistics. Series 21, No. 11, Peb 67
A Bullyttal Visid of recess for they trends in terms of
petiod and coloret measures. Disenses variations in lertitry of major population groups, by trace and place,
reducing Paerto Rec and the Vegns Islands.
ANO a discouse not d'anascertaines of live britts including lifts weight, penod of genetation, attendent at both,
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 CAMPBELL, A. A., CLAGUE, A., GODLEY, I. Natality statistics analysis, U.S., 1963 Vital and Health Statistics, Series 21, No. 8, Mar 66.

Statistics for bitthain in bit LS, in 1963. Weens who had completed the civilediterating period (them 50 years of ago) had 2,3 children while those 30 years of ago had 2,3 children while those 30 years of ago had been 2,6 children 59% of when see 48% of monwher bee buttha were delivered in leopitals. In several Southour States, over 200 of the monwhile births were not stended by decrea, Aloust 8 out of 100 merhorses weeghed list with a 2500 grams, Anoto 450 of all butths and 183 of butths to women under age 20 were likeptomate. 15 stables, (AED)

472. COWGILL, U. M.
Recent variations in the season of birth in Puerte Race.

Pince Mar Acad Set USA 52:1149-51, Nov 64.

Since 1541, assous of bith patterns in Pearter Rose have gardeally stuffed from testing similar to Butopasa patterns to sow breage insteally the that of the continental U.S. A large maximum appears in Suprember and the anomal how control in May and June, Dalla for the U.S. Dalla 154, D

 CZE(ZEL, E., ELEK, E. Seasonal changes in the frequency of fetal damage and fertility Ore Medi 107, 2466-9, 25 Dec 66, (HUN)

Data for Hungary, 1957-63, indicate that live boths betueen February and May exceed the annual average, while those between October and January do not reach it. Stilllettäs ein higher than average between November and April and lower thin average between New and September. Presistative berlis are less frequent from June to October. No seavenistly was found for assis of opnoraneous abortion. Conceptions are are in late winter and early spirit and increase in frequency in the summer months. (From Evcerpta Medica Sec 10, Vol 21, No. 3, Mar 88.) (Ed.)

 DAMON, A., THOMAS, R. B.
 Fortility and physique-height, weight, and ponderal index.

Hum Biol 39 5-13, Feb 67.

Among 2,616 men incounted at Harvard College between 1880 and 1912, the 1,511 who subsequently married and had children were 0.8 on talke than the 578 who remained small and 1.0 on talke than the 578 who remained smalls and 1.0 on talke than the 527 who mar-

ried but had no children. The three groups of mon did not differ in weight or in ponderal index, (tright); to weight. The LSTI fathers showed no assention between inlimite fortisity and height, englist, or ponderal index. 3 tables. Beforeness. (AA)

Fortility differentials among Catholics in Australia.

Mulbook Mem Fund Quart 42:57-83, Apr 64.

Data from a 20% sample of Catholic wives in the Austra-

Han Cesses of 1554. The time trend of completed feeting to war subject, Americanney for eag as a testing and duration of searning. Feetility declines over greater among urban than near lower, Establishers seven had the grashost feetility declines, Median number of children was lowest among the Australian, British, and Hallenburry, then the Politishers, and highest among the Nest-articular and the control of the Politishers, and highest among the Nest-articular and the politishers. AGEO.

 DICE, L. R., CLARK, P. J., GILBERT, R. I. Relation of fortility to religious affairation and to church attendance in Ann. Arbor, Michigan, 1951-54. Eugen Quer 12:102-11, Jun 65.

> A random sample of the resident possilation of Ann Asbor, Michigan, 1951-54, is analyzed by religious affiliation, church attendance, and fertility. No significant relation between number of children and religious affiliation is indicated. Nor is there a significant relation between fertility and frequency of church attendance, Level of education does not vary significantly among the major religious groups represented in Ann Arbor, either for the males or the females in the 40-70 age group, Occupation and amount of income per year earned by the males aged 40-70 years likewise does not vary significantly among the major religious groups, It is suggested that the absence of a differential in fertility among the major relaglous groups in Ann Arbor is the result of the general similarity of these groups in their levels of education, classes of occupation, and amount of earned income, 5 tables, 9 references, (AEd)

DUNCAN, O. D.
 Residential areas and differential fertility.
 Enges Owart 11:82-9, Jun 64.

This paper examines fertility differences by residence and simultaneously by socioeconomic characteristics of the individual married couples. A real classification of rent lovels produces fertility variations which are partially inferencient of and additive to those due to the classification of indurdual avoiling units by rent. Varition in fertility by social consector and revisit area may be partly due to such associated factors as obscation, ago at instruge, regional origin and tenute, as well a-rent naid. 2 tables. 8 references. (AEd)

## 337. FREDERIKSEN, H.

Determinants and consequences of mortality and fertility trends.

Pub Health Rev 81, 715-27, Aug 66.

 FREEDMAN, R., COOMBS, L. Childispacing and fundy economic position. Anter Social Res 31 631-68. Oct 66.

> The timing of births after narrage has a strong and conunent relationship to the economic position of a sample of white Detroit couples who recently had a 1st, 2nd, or 4th birth. A couple's coonsmic position is better the longer the interval between marriage and the lat birth. Those wives already pregnant at marriage are particularly disadvantinged occuromically. Whother early and rapid family growth causes relatively low income status cannot be determined from these data. The question is whether some factor not treated in this analysis accounts both for the timing of the marriage and births and the economic history of the family. Even for linibunds with good educational propagation, rapid family growth is associated with a less favorable economic position. Couples who were preprent at marriage constitute about 20% of the sample and they continue to have children more quickly than others. (AEd)

#### GIBSON, J. B. Differential fertility and social mobility. Interim report of a survey.

Jogue Ref. 9812-8, Mar 66.
A persolar pital regrey of Cardinige conformed that the paradisc of the massared IQ lived of the population fails produced to the massared IQ lived of the population fails of the paradisc of the massared IQ lived of the population fails of the paradisc produces IQ and finitely use was due to the high progney than the paradism material that out reproducing the fail of the paradism material that out reproducing the fails of the paradism parad

## GODLEY, F. H. Fertility and educational attainment, Putrio Reco, 1962 Vital and Health Statistics, Series 21, No. 12, Sep. 62.

Statistics on obsculies of puretts of children texts in 1952 of Partico Rise, the first sere of the U.S. birth registrative system to report this information. This recommendation was a series of the control of the consolution and the characteristics of the newborn fashand socioconsonic which to which the training time and socioconsonic which to which the training consolution and the characteristics of the newborn fashand socioconsonic which the control of the consolution and the characteristics of the newborn fashand woman mass the significant text and the control of the cont form of marrage, and the occurrence of the birth in the last quarter of the calendar year. Medical, psychological, and socioecosomic amplications of these reintsorabips are distrused. 10 tables. (AEd)

#### GOLDSTEIN, S., MAYER, K. B. Residence and status differences in fortility. Milbank Mem Fand Quart 43 291-310, Jul 65.

An incredigation of the retirent between ferriety as retirence, in cream trees of Robot Mental, Analysis based on 1930 Centra statistics found higher ferriting as the contract of the contract of the contract of the criticity interes materiates complex and those in logaciently interes materiates complex and those in logaciently in extended to slight attrast statistics in the two survey studies it as conclusive that place of renderince and criticity in extended to slight attrast statistics in the two survey studies it as conclusive that place of renderince and completed fertility. The complexity of the relation isterent fertility and readence polast to the efectability of the critical contraction of the complexity of their studies.

#### GRUNT, J. Trends in the satisfies of the agricultural population, Cerk Hog 10:331-4, Jul 65, (CZ)

Empiradors the need for studies of differential fertifity of the agricultural population of Corchodovatus. High feetful of the agricultural population has been observed up with the lower fertifity of the angienteral population has been observed up with the lower fertifity of the monagricultural systation has not, she in port to shift of population from periodical to a consegnatural cases. Fertifity in wringer remains higher than in towns because of the agreedinal to companies of the trillages. I Sertifical Perferences. (Fig. 1997)

## HERMALIN, A. I. The effect of changes in morbility rates on population growth and age distribution in the United States. Milliank Mem Found Owers 44, 451-69. Det 66.

In the first part of this century, mortality improvement had only a slight effect on age composition in the direction of a yourser regulation. It rested the notestiality for very rapid growth in the future by bringing close to 100% the proportion of these surviving from birth to perenthood. For the latter just of the century, any general enortality improvement will make the normistion older but will have very slight effect on population powth. In this century, fertility has been the chief determinent of age structure and incressingly will be the sole determinent of population growth. In the U.S. with feetilaty largely under voluntary control, the level of fertility will apparently vary with social and economic conditions. This means that a changing age structure and flucinsting growth are likely, with periods of aging alternating with periods of representation and with sponsile spirts and hills in the rate of increase, for tables, 2 figures, 14 references, (AEd)

#### KISBR, C, V. Population trends and public health in Latin America. Milhouk Mem Fund Quort 45:43-59, Jan 67.

This gaper examines the general relation of health to the gowth, size, density, distribution, and distractorists of the population and to the components of population change, feetility, asortality, and adjustion. For each subject a few general observations are unide before applying the case to Latin America. 15 reference, (%)

#### LAL, A. Nuprishity as an index of human fertility. Indian Med J 58: 255-6, Doc 64.

The association between mightality and forman fet shy; is a long standible done. Due to crobe-stir size it commissions between the two can be gathered from the UN, and with. The due provide surrage and both intent is a fine of the cross of the provide surrage rate in a poor safet, of human fed size to the cross of the both meast on unregioners to the cross of the first human fed size of the cross of the c

## LUNDE, A. S., OKADA, L. M., AND ROSENBERG, H. M. Natality statistics aralysis, U.S., 1962. Vital and Health Statistics. Series 21, No. 1, Oct 64.

Analysis of fertificity trends and diversions of panelsty, assessed withinks, period of guestines, regist at both, we will be a second withinks of the properties in the properties of the creat in event the control of the creat in control of the creat in control of children or some in 1942, over 97% of all this wave collected in heaptists, varying them less than the control of the children or some in 1942, over 97% of all this wave collected in heaptists, varying them less than the control of the children of the control of the

#### MAULDIN, W. P. Application of survey techniques to fertility studies. J Chromic Dis 18:1215-31, Nov 65.

Results from a wariety of studios in different parts of the world about desired family size are summarred. The relatibility and widdity of the survey data, as well as the subject of comparability among studies are discussed. 5 jabbo. 30 offerencys. (Ed)

## MAZUR, D. P. The graduation of age-specific fertility rates by order of birth of child.

## birth of child, Ilum Biol 39:5 3-64, Feb 67. 488. MEJILAN, K. II., FALKENTHAL, S. Intervals between deliveries and their significance for the

fertility and health of women.

Zili Ciyacci 83 337-47, 15 Jan 63, (CEB)
Analysis the Gelvian of lithic laterable in the German Bencerable Republic for the year 1960 and computes the callimated Higners with those of 1901, 1911 and 1954. The tendency shows an increase in both intervals (arrange 14 months tetween betworth) the sociological result in endyzed, Viewy are green on the sociological are probability. Support of fertility, 6 tables. 8 referrables were supported to the contract of the contract of the support of the contract of

#### 489. MENAKER, W. Lunar periodicity with reference to lire tarths. Amer J Obster Gymce 98:1002-4, 1 Aug 67.

A liah million lire births, occurring during 37 synodic lunar months and constituting virtually all knows births as New York City for 1961-63 were gleated on the symode tears croke of 253 day. The fall cycle with the highest both sets began the day after the first quarter. (CPQ-1) and thus almost coincides which the brightest half of the hear month (centered at full among). This beth at least wes 1.0°; generate than that for the half cycle began man the day after hast sparter. The findings are competed with these reporter in 1959 includes the proported with these reporter in 1959 includes the proported with these the control of the control of the proported with the set has the control of the control

#### MINET, P. L. Processous fortisty in a sample of marriages in a Cunidian province.

Acts Gener (Janua) 14:136-98, 44. (TR)
Study of the firstly rate to 4 9,050 a marings, reputered
in Berlin Columba. 1934-198 The Broquernoy duration
in Berlin Columba. 1934-198 The Broquernoy duration
perfects and the second of the second o

# parents. 7 figures. 14 references. (AEd) 491. MITCHELL, J. C. Differential fertility amongst urben Afrikans in Northern Rhodens. Com Afr J Med 10-195-211, Jun 64.

Data from social survey, 1951-1954, in towas of Northern Rhodesia show total births to worsen in 5-year age groups, and how many each group bore. Fertility action are gaven and discussed. Childlessness are factor in fertility is dissipated by a diagram according to women in 5-year seg groups. 6 tables. 12 references. (Edd)

#### MITRA, S, Child-bearing pattern of American women.

Eagen Quart 7:1133-40, Jun 66
This paper as the time as neases of studens of differential festility tende on 1940 U.S. comus figures for 1 In a festility tende on 1940 U.S. comus figures for 1 In a festility tende on 1940 U.S. comus figures for 1 In a festility tender of the festility of the fe

## MITRA, S. Education and fertility in the United States Event Over 13:214-22, Sep 66.

Composition of women by education has undergone significant upward trend in the last decade, all ages, whites and nonwhites. Investe relationship between education and ferritaty persisted on 1900 but was reduced in intervery for all age and obscation groups ferfility has it crossed, and often the absolute mersus has been duretly related to effective. The gap between highest and lowout educational enterprise his law been reduced. White working and 31-39 had on no norang 2.5 to 3.2 children down the education avers in 1900. Corresponding range in 1920 and 1.1 to 2.5 homewhite soon has no child and 1920 and 1.1 to 2.5 homewhite soon has no child and of differential we more workle in women in without has no real areas. 9 tolder. 3 reference, C. (AE)

#### MITRA, S. Income, sourcement status, and feetility in the United States.

Eugen Quart 13:223-30, Sep 66. Although there are quite a few exceptions, the inverse relationship between income and fertility has not totally disagneered, and such a mistion is clearer for whites than norwhites. Sometronomic status (SES) score may be expected to be a better index of social stratification than the 3 component variables-family income, education, and occupation of the chief income reciment-since it assures greater homogeneity within and heterogeneity between strougs. However, a street inverse relation between SES and fertility is not supported by the data. Fertility among nonwhites was higher than among whites so each SES class except the highest. Perhaus if selection of women were confuned to those with all 3 components of SES consistent, the combined score would visit a more homogeneous group and produce a strict inverse rotationship with fortility. 4 tables. 9 references. (Ed)

## MITRA, S Occupation and fertility in the United States Eugen Quart 13 141-6, Jun 66.

Among white xomen classified by age and major occuption of their induced, the total mander of children cover born was highest among farm laterers and formers and lowest among christol, select and formers among the bowst among christol, select and funded sevelent. The relative positions were nearly identical in 1950, in almost extry occupiolin group, nombile women administration and among children than white women of the sense spa, occupi for the professional, terthinical etc. and christol, sales, and standard workers groups 4 tobbs. 3 neches. (Ed)

# PARROT, P. Ambytical study of decline of the birth rate in Canada. Canad J Public Health 57 581-5, Dec 66. (FR) No Emploh summary.

 PERRIN, E. B., SHEPS, M. C. A mathematical model for human fertility patterns.

# Arch Enturon Health (Chicago) 10:694-8, May 65. 17. PINTO, R. M. Demographic, economic and social factors that regulate fertility.

Penne Med Argon 52-2391-6, 29 Oct 65. (SF)
Population tables of the South American construst, the
continents of the words, and sidned countries are given
with the number of births and mortality molecus. But
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with the number of births and mortality molecus and
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at fillough the manufacture of contracepthe medications
of debress are prohibited by him or neighpose grounds, the

restical profession sources some from foreign countries in order to try to control the birth rate and keep it closer to replacement figures. If tables. 1.1 references. (AE4)

#### POTTER, R. G., Jr., NEW. M. L., WYON, J. B. A tertifity differential in cleven Pumps villages. Millioni. Mem. Pland Quart. 43:185-201. Apr. 65.

In a netal population of about 12,000 in the Punjab, India, a moderate fertility differential was found between Let fairners (% the population) and Change leather workers (% the population). Data came from the Indu-Haward Ludhum Population Study, also known as the Khanna Study. Among wives of childheuring ago, Jaty and lower fertility than the Channes of all ness, partly because of the Jat's higher rates of fetal wastage and partly their easily stoppage of promuney. The 2 groups reported escentially the same amount of practice of contraception. A practice of induced altertion is tentatively inferred from the Jul's consistently higher rates of futal wasture. The basis of their earlier infertility remains uncurtain. Several factors may be involved including contracention and the sterifizing effects of crude abortions. 8 tables. 15 references. (AEd)

#### RIDLEY, J. C., SHEPS, M. C., LINGNER, J. W. The offects of changing mortality on natality. Some estimates from a stimulation model. Milbank Mem Faind Quart 45:17-97, Jan 67.

 ROACH, J. L., LEWIS, L. S., BEAUCAMP, M. A. The effects of race and socioeconomic status on family planning. J Urally See Return 8, 40-5, May 67

Retainly attreggin of race and source-commic status or prediction of famility planning behavior in sexamined, a group of 1,000 clients of the Pannel Parentheod Center and the Commission of the Commission of the Commission of the Commission of Early splanning than is race. The sample decide uses 350, 1000, 0,300 which, and parce was not destrumed for 200 keys, 0,300 which, and pare was not destrumed for 200 keys, 0,300 which, and pare was not destrumed for 200 keys, 0,300 which, and parent was not considered for most of the variance. Negroes are more fieldly from the commission of t

#### ROSENBERG, H. M. Current birth trends in the United States. Amer J Obstet Gynec 98:1005-12, I Aug 67.

Current trends in hierite and some genteral predictions about future trends hased on known such and deline about future trends hased on known such and deline particular trends are successful with refutility. From 1919, 1919, and the hierit rines are future to the particular and in his styles and the hierit rines and the fine styles and the hierit rines are trends of the future trends and 1950. Virtuos possible curies of these clampes are decisioned. 3 highest 3 factorings (Education of the fine styles and the highest read factorines).

## ROSENBERG, H. M. Statemal variation of births, U.S., 1933-63.

Vital and Health Statistics. Series 21, No. 9, May 66.

There was an overtige seasonal difference thirling the most recent 10-year period of about 15% between the peak amount of September and the months with the fewest births, April and May. Seasonality does not appear to be

related to season of marriage, to age of mother, or to beth order of the child, but may be related to volucednomic datas and climate. U.S. birth patterns are compared with other countries and over time since 1933. 6 tables. (AEd)

 RYDER, N. B., WESTOFF, C. F.
 Use of oral contraoption in the United States, 1965. In only 5 years ceal contraoption has become a major

means of regulating fertility.

Science 153 1199-203, 5 8pp 66.
Report from the National Fertility Study, 1965, a survey of the reproductive behavior of a authoral source of the reproductive behavior of a set found as angle of survey and when the set of cost contraceptives by water of the set of cost contraceptives for the volume and set of cost contraceptives for the volume and directly with ample of the volume and directly with ample of cost of skedding the multiplicity of young women with coolings framing have already used the cost constructive. Use for Negores is somewhat has continued to the volume facility of the volume for the volume facility of the proposal proposal

concomitant acutal differences in oducational level. Other findings are discussed. 6 tables. 3 references. (Ed)

503. SAXEN, GB.

Differential fertility in renal limits community: A sample servey of the rural Utse Prodest, India. Execut Outer 12:1374-5, Sax.

Average number of children is quite high. The early size and the fathers of effective to decline sturply account for the higher number of Spirth. The data reveal as inverse relation between cent and forfully. This relation had when cents and forfully. This relation had when cents affected the facility are analyzed by indi-tions, subons, and social values. Overgation does not soom to affect the family-building pattern, possibly because it it less associated than it easies with the cultimate contained the social values. On the contained the particular of the contained the

 SEIGEL, D. G.
 Frequency of live births among survivors of Hiroshuma and Nagasaki atomic bombings.
 Radiat Res 28: 728-88. Jun 66.

Data through 1961 were chrocked for line birth oxysticace of approximative 3-4000 persons in Nagaski mad Hiredinan. Comparisons were inade among groups at various transport of the second of the seco

SHEPS, M. C., PERRIN, E. B.
Further results from a human fertility model with a variety of pregnancy outcomes.

Hum Biol 38:180-83, Sep 66.

\$05. SRIVASTAVA, M. L. The relationship between the birth rate and the death rate in stable populations with the same fertility but

different mortality schedules.
Eugon Quart 13 231-9, Sep 66.
In 1963 it was noted that a decline in mortality was
associated with a clunge in birth rate. This study examined decline in birth rate and related measures, because

associated with a change in blich rates. This study examined declines in blich in the ord breiffer formayers, because of the decline in a population, It disclosed an interesting and very useful comparate leafthening between their has not added in sate in stable populations that have the same fertility but different mutually scholars. From the warful colors in the age pattern of fertility and meritary in a case of the populations considered, it may be before and of the populations considered, it may be before and of the populations considered, it may be before on the contract of the contract of the contract of the contract of the agent is the contract of the cont

figures 9 references. (AEG)

506. STOKER, H. M.
Population explosion,

SAfr Med J 40: 319-22, 16 Apr 66. Present rate of population increase is undoubtedly due mainly to the falling death rate, porticularly in countries where death rates were relatively high. There has been a very marked decline in deaths particularly at the early ages of life. Whereus in carlier years, only about 15 of newborns survived to adulthood, the fusire new exceeds 90% in an ever-increasing segment of the world population. In more developed and industrialized areas such as Northern America, Europe, and Occania, compresing approximately 20% of the world's population, growth rate is about 1% per ansum, In loss industrialized and less developed regions such as Africa, Lutin America, and Asia, compelsing 72% of the world's population, growth rate is about 2.4% per annum. The contrast in rates would be even more pronounced, if expressed on a country or degree of industrialization basis instead of on a melavul besis I table. (Ed)

STYCOS, J. M.
 Female employment and feetility in Line, Peru.

Millianta Men Panel Queer 43-8-54, Jan 65. Using 1995 Jiana kehr neglenetise dust, il was Gund that rens a Path order by age of ausber is virtually ledent and path order by age of ausber is virtually ledent and path of the path of a land niver no other or of coursely married women in Linn divers no other cells of coursely married women in Linn divers no that cell the path of the path of

 WHELPTON, P.K., CAMPBELL, A.A., PATTERSON, I.E. Trends and determinants of family size in the United States.
 Amer J. Public Health 54: 1834-40. Nov 64.

> A discussion based primarily on two studies by the Scripps Foundation for Research in Population Problems, for the purpose of providing information world in making projections of the future population of the U.S.

The gam from larger families will probably reach a maximum during the current ground and called decreases which or returns nor the current figure in contrast, the contrast, the contrast gas of the contrast of the contrast gas of the current gas of the current

changes at age at childbening is partly responsible for the decrease of the crudo both into 1,1 Will continue it evert a deposing militance during the sets of the 1950's and the 1970's. Probabilities of couples having either fewer or more children than are wanted by one or the other spanse, or both, are discussed. 2 tables. References. (Edd)

#### B. RIRTH WEIGHT AND GESTATION

509. ANONYMOUS. Growth-cate as utero.

Lancet 1,765-6, 8 Apr 67. 1/3 of babies formerly classified as premature (2.500s or less) are, in fact, born at full term and are undergrown. The prognostic implications of retarded intranterine growth remain obscure. Many reports have described unpaired development after intrauterine malnutrition. Van Den Berg and Yerushalmy reviewed 400,000 births in New York City. A significant difference in mortality between groups of infants of similar birth weight but difforest postational are promoted them to evamore to greater detail the association between rate of intrantering growth and subsequent development, Infants of very short gestation had neonatal mortality rates nearly clouble that of other groups, largely due to respiratory disorders. Congenital maiformations were more common among "small for dates" infants. Various lavestigations are cited. Accurate documentation and assessment of gestational age will be of preme importance in future research on the low birth weight buby. (AEd)

510. ABERNATHY, J. R., GREENBERG, B. C., GRIZZLE, Birth weight, postation, and crown-heel length as respouse variables in multivariate analysis.

Ames J Public Health 56:1281-6. Aug 66. Several indexes of prematurity, based mon physical measurements of the infant and woos length of orstation period, have been developed and used over the years, Inthis paper the authors analyzed simultaneously the coreponents of three such indices as response variables in multi-variate analysis. They conclude that the method is practicable and that factors which came neematurity might better be identified and defined through suidy using the technics described. I table. 7 references. (ED)

511. ABERNATILY, J. R., GREENBERG, B.G., WELLS, Smoking as an independent variable to a resitiols repression analysis upon birth weight and grutation.

Amer J Public Heelth 56:626:33. Apr 66. Regression techniques were used to analyze variation in birth weight and length of gestation in a group of fluitsmore Negro women of like socioeconomic class. Variables significant in the regression analysis of birth weight but not gestation were smoking history, parity, hypertension, and celampses, A 129g defference in birth weight of offspring of smokers and non-smokers was shown As gestation increased, birth weight increased but at a docreasing rate. Variables significant in the regression analyers of gestation but not birth weight were psychosomatte complaint score and trimester of interview. There was a significant difference in the mean sentation of infants of mothers with low and high psychosomatic complaint scores but not in their birth weight. The same can be said concerning infants born to mothers who sought prenotel care in the third as compared with the first trimester. 3 tables. 10 references. (AEd)

 BACOLA, L., BEHRLE, F. C., DE SCHWEINFTZ, L., Perinatal and conformental factors in late neurope sequelse I Infants lawing both weights under 1,500 erams. Amer J Dix Closel 112 359-68. Oct 66

A study of 40 infants been at the University Kansas Medical Center since 1954 who weighted between 1,001 and 1,500g at burth and were available for followup examinations. Half the infants were considered either mentally retarded or borderline in intelligence. Over half had senous chalcal respiratory difficulties in the neonatal period. All of the infants had respiratory distress syndrome (RDS) in its most severe form, lite occurring annea, or a mother with tenema of pregnancy. In its most severe form, RDS accounted for the inverse relationship between birth weight and gestational age on one hand and the sacutence of mental retardation on the other. Maternal toxesse of pregnancy was associated with gestational periods that were longer than usual and

a tendency for mants to be "small for dates", 6 513. BACOLA, E., BEHRLE, F. C., DE SCHWEINITZ, L. Pennatal and environmental factors in late neuropenic sequelze. II Infants having both weights from 1,500 to 2.500 grants Asser J Dis Chief 112:369-74, Oct 66.

tables. 20 references. (AEd)

A study of 48 refront horn at the University of Kansos Modical Center since 1954 who weighted between 1,500 and 2,500s at burth and were available for followin examirations. Neonatal resouratory difficulties, including the most severe form of the resouratory distress sysdrozen and later occurring appea, were not associated with an incremed incidence of subnormal aruntal develgeneral imore they infants. Maternal toxents of preemany was associated with a high tacidence of off-prine who were "small for dates" at both. An increased incldence of subnormal mental development was not observed among these offspring. Somoconcurse conditions appeared to play a significant role in the mental development throughout the birth weight range of 1,500 to 2.500g. 5 tables. 13 references. (AEd)

514. BARKER, D. J.

Low intelligence. Its relation to length of postation and rate of foetni growth, Brit J Prev Soc Med 20:58-66, Apr 66,

An analysis of tirth weights and postation periods of 606 children with low intelligence of unknown cause from a population of 73,687 single births, for whom obstervie data had been recorded. Low intelligence is associated with both a slower rate of intranterine growth and a higher incidence of birth before 38 weeks of pestation than found in the population. Below an approximate I.O. level of 50, slow intrasterine growth may be closely selated to the factors causing subnormality; above this level, it scores to be one of many characteristics of families in which sensitic endowment and the environment are generally unfavorable for intellectual development. There is evidence that birth before 38 weeks of gestation

rea cause of low astellagence when it is accompanied by a very short labor or delivery in the absence of a qualified bight attendant. It were multicly that orther high birth weight or prolonged gestation are associated with a marked mercase in the threshold of witnermarky. 15

tables, 27 references. (AEd)

515. BATTAGLIA, F. C., LUBCHENCO, L. O.
A prostical classification of newborn infants by weigh

A procured dissification of newborn infants by weight and gestational age

J Pedar 71 159-63, Aug 67

A classification of newborn infants based upon gostational age and borth weight is proposed. The advantages of establishing such a contine on a morsety service and the possibility of superimposing neonatal mortality rates upon gestational age and borth weight data are persented. I stable, 2 features 6 references. (AA)

 CASSADY, G.
 Players volume studies in low buth weight infants. Probatics; 38: 1020-7, Dec 66.

An average plasma volume of 46.8 ± 7.1 ml/kg and blood volume of 879 ± 13.6 ml/kg was found in 69 true premanire infants studied during the first 12 hours of life Respiratory distress syndrome in these infunts was not associated with an altered plasma or blood volume. Intrauterine growth retardation, defined on the basis of disproportionately low buth weight in relation to gestational age, was associated with an elevated average plasma volume (\$2.0 ± 7.8 m/kg) during the 4 hours after birth Despite rapid adjustment of this volume to normal between 4 and 12 hours of age the average blood in this group of infants was significantly elevated (102.0 ± 18.7 ml/kg). These studies reveal direct objectives and measurable differences between growth returded and true promature low buth weight infants and oppresent an attempt at more accurate definition and understanding of intrauterine growth retardation. 4 tables, 5 figures, 31 references, (AA)

17. CHURCHILL, J. A.

The relationship between intelligence and burth weight in

was.

Neurology (Minusoy) 15:3417, Agr 65
Fifty exts of town sew compared for the relationship between field weight and WISC (Weehsler Instilligence State for Children) (). The lighter comments within sext were found to have lower 10%. When identical towns (28 in a market) were separated from relateral forms (28 in in market) were separated from relateral forms (28 in of ext war swin in the identical but not la the frairmant group. Furthermore, it was found that the performance section of the WISC (2) test bore a relationship to Barth effective.

518. CHURCHILL, J. A., NEFF, J. W., CAI DWELL D. F.
Buth wright and athligence.

Obstet Gyme: 28:425-9, Sep 66.

A group of \$1 chddwn such "undifferentiated" sensis tractacition uses found to have significantly lower both weight than a group of \$1 chddwn with 162 above 110, the sensition of the sensition of

birth weight relationship was found to be independent of sociocultural factors in the middle class population studied. 3 tables. 16 references. (AA)

 CORNBLATH, M., FORBES, A. E., PILDES, R. S. A controlled study of early fluid administration on sursyral of low birth weight infants. Prohistric 38: 547-54, Oct 66.

> A study of infants born at Cook County Hospital, Chicago, to evaluate offects of early administration of fluxly versus 24-72 hours starvation on servival at 14 days of 90 presnature infants with birth weights under 1,500g Mortality was 30% in the 30 infants who were given introvenous fields as compared to 50% in those who were given masagastic fluids or those who were starved A reduction in mertality was noted in the group of infants between 765 and 1,250g, who received parenteral fluids curly (mean, 6 hours; range, 2-15 hours). Since limitations to those lower weight groups had not been included in the protocol, a further study is indicated. There was no significant difference in the 72-hour weight loss, the biochemical determinations, the morbidity, or the autopsy findings of the 3 groups studied. 7 tables. 34 references. (AEd)

 DRAGE, J. S., BERENDES, H. Apgar scores and outcome of the newborn. Pediat Clin N Amer 13,637-43, Aug 66.

scores with Brith weight flow birth weight association with the weight association but weight association but weight association but weight as weight association but weight association but weight association with the weight association with a state and the mentalty between high and flow account enthulty, and associated with infastes methodicy and associated with infastes methodicy and offers associated with infastes methodicy and offer associated with infastes methodicy and offer associated with infastes methodicy and infastes associated with infastes presented inspartial coherent has been discussed with the begin that better observation of the method of the weight with the begin that the true observation of the method of the weight with the begin that the desired is flagues? I shall. Sween consequences (ASS)

A strong association is shown of both 1- and 5-minute

DRAGE, J. S., KENNEDY, C., BERENDES, H.
The Appar score as an index of infant nucrbidity. A report from the collaborative study of crebral pulsy.
Devices Med Child Pagnal 8: 141-8. Apr 66.

Both the 1-minute and 5-minute Appar scores have value as predicting infant morbidity and the 5-minute score is the better predictor. Morbidity is defined in terms of diagnostic impression regarding neurological abnormality at one year of age, and by more specific findings regarding motor relaxation, muscle tone, and prehensile grasp. Low birth weight is also related to abnormal neurological outcome at age of one year. Within combinations of birth weight and 5-minute score groups, abnormal outcome is associated most strongly with the combination of low birth weight and low 5-minute score. The percentage of abnormality within each birth weight group is greater among infants with scores of 0-3 than among Infants in the same birth weight group with scores of 7-10. While both birth weight and Apper scores at 1 and 5 minutes have predictability value regarding neurological abnormably at one year, this predictability value increases considerably when birth weight 5-minute scores are combined. 5 tables. Chart. 8 references, (AEd)  DRILLIEN, C. M.
 The incidence of mental and physical hundrers in school age children of very low both weight. II. Professor 39: 233-47, Feb 67.

Data refer to 50 children in Scotland 5 years or older whose later's weight west, 1500g or 3m; 10 records and moreovers of innext and physical modelages are generally of the state of the

 ERHARDT, C. L., JOSHJ, G. B., NELSON, F. G. Influence of weight and gestation on perinstal and neomal coordality by allulic group.

Amer J Public Health 54: 1841-55, Nov 64.

523. GENTZ, J., STERKY, G.
Pronoud new datastication of newtoen infants.

Lakartahungen 63:4989-93, 28 Dot 66. (SW) A new classification of newborn infants is proposed. based on standard curves between normal weight and length at birth in relation to gestational period. To qualify as "normal" the infant must fall within the mean a 2 standard deviations for a goven postational age. The for the calculated duration of gestation corresponding to the mean birth weight in the basal material (standard curves). A "pathologic" length of gestation is more than 282 ± 21 days, while "pathologic" weight and length vary. Examples are giron for each early and late symptornatology and prognosis for various groups of newborn infants at risk. Further data and a uniform elasufication are needed. The parameters presented are objective and capable of direct measurement and all newtorn infants may be described in relation to them. Turns such as immulure, premature, dysmature, small for dates, etc. are lacking in procise definition, and make comparison between different material impossible. 2 photographs (of suthors). 1 figure. 20 references. (AEd)

GHOSH, S., DAGA, S.
 Comperison of gestational age and weight as standards of prematurity.

J Prefive 21: 173-5. Aug 67.

A study based on profied of getablism and hirth veight of 2,723 ingle-born line infants. Prospects for the budy in proved with increases as weight and larged or gentation, infants with longer gestational periods within the same weight group had been mortality rates as a group than which is the property of the property of the property of Wildle same weight groups, physiological responses were more mature in fashies with longer gestational predoks. It is suggested that weight stone is not an adequate emison for increding presentating, and that weight and gestace of the property of the property of the property of the general control of the property of the property of the general control of the property of the general property of the property of the property of the property of the general property of the property of the property of the property of the general property of the prop

 GRAVEN, S. N., OPITZ, J. M., HARRISON, M. The respiratory distress syndrome. Risk related to maternal factors. Auser J Obstet Gynec 96:969-76, 1 Doz 66.

Incidence of respiratory distress syndroms (RDS) of premature infants bern to mothers delivering successive low birth weight (LBW) Infants is prosented. A beatiby LBW infant followed is healthy LBW infant 20/134 (times and a LBW infant to the RBK REDWORD and a LBW infant with RBK REDWORD a LBW infant with RBK REDWORD and RBW infant with RBS 9/12 times, Indicators of RBS among LBW infants to more than the control of residence of RBS among LBW infants to mean the general proposition was other trained. On the base and the general proposition was other infants of the description of RBS produced in the residence of the reside

 GRISWOLD, D. M., CAVANAGH, D. Prematurity—the epidemiologic profile of the "high risk"

Promaturity—the epideuniologic profile of the "high ris mother. Amer J Obstet Gynce 96:878-82, 15 Nov 66.

At Justicon Memorani Hospital, Mison, Fleefen, prematurity rato is consistently about view on high among indigent as among private patterns. An epidemiologic analysis of the indigent group further revealed the patterns must likely to have a postnature baby. Casefus tracting of "high itsel" patterns, and comparations with "low risk" patterns in the same notelectonousle group would shad further light on the sublogogy of prematures baby. 5

tables. 3 graphs. 16 references. (AEd)

527. GRUENWALD, P.
Infants of low birth weight among 5,000 deliverses.
Professor's 34:157-52, Aug 64.

Assure 5.000 consecutive soldivates, there were 5.16 infant of 199 birth weight (601-2,500g), Those weighting fant on 1,000g with weight (601-2,500g), Those weighting found are and sometimes of this weight for gastional age. The incontract of this weight for gastional age. The incontract of chronologically nature infants and of those sended in Interactive ingrowth was determined for infants weighting 1,001-2,000g, 100-2,000g, oil, 1001-2,000g, oil, 100

 GRUENWALD, P. Terminology of infants of low birth weight. Develop Med Child Neural 7:578-80. Oct 65.

> Infants weighing 2,500g or less at birth are not all prenusaire in the sense of being born too early, but may be small because they did not grow sensually in atom. The World Health Organication has suggested that infants weighing 2,500g or less be called "infants of low birth weight" rather than "prometures," Grids of normal growth of "recumiture" infants (old terminology) are based on values intermediate between those of true premeteres and growth-retarded mountes, being derived from populations containing a mixture of the two types, Neurological oberacteristics of monates are governed by conceptional ago rather than birth weight. Several terms are suggested for lefants of low birth weight, such as: short-term peopales (peopalurity or immaturity propar): growth-returded recorates (small-for-dates, fain) malautrition, pseudoprematurity, dynmaturity, chronic fetal distress); combinations of these two; and accounts who connot be adequately abssifted because of incomplete Information, 25 references, (Ed)

 GRUENWALD, P., FUNAKAWA, H., MITANI, S. Influence of environmental factors on fetal growth in man. Lancet 1:1026-8. 13 May 67.

is the increase in average birth weight after improvement of economic and health conditions due to increasing

length of restation or better fetal growth? Hospital records of 3 targe Japanese obstetric services were used to obtain information on buth weight in relation to gestanoted are during a 20-year period in which not only recovery from wartime deprivation took place, but also sportuge in moan birth weight over pre-war levels. Duration of pregnancy was not increased, but fetal growth curves showed a straking increase of weight for gestamonal age during the latter part of the third trintenes of programmy. This attests to the prominent influence of socioeconomic factors on fetal growth. The curves are consistent with the hypothesis that differences in average birth weight of population groups are due to variotions in the time at which growth begins to fall below optimal levels during the last part of the third trimester. Data show an increase as body height as well as in weight. 2 tables, 2 figures 11 references (AEd)

HENDERSON, M., KAY, J.
 Differences in dutation of pregnancy. Negro and whete
wasten of low socioeconomic class.
 Arch Eurona Health (Chengo) 14 904-11, Jun 67.

A shale of pregamence in white and Negro women in faithness, piles as biological effectives between polycipite, it must be aboven that: (1) the observed defincipate, it must be aboven that: (1) the observed definers in set of considerated with destribution, on accusated with the length of pregament, but not been associated with the length of pregament, but not been port a biological hypothess. Negro women were found to have destree preparactive than white women. This proper is a biological between the consideration of the article of the control of the malierant determinance other than those customed in cores. (Edg.) this weight it lates, 20 refer-

 HENDRICKS, C. H. Twanning in relation to both weight, mortality, and congenital anomalies. Obster Gyune 27 47-53, Jan 66

32 HOLLINGSWORTH, M. J., DUNCAN, C. The bath weight and survival of Ghinnesin twins. Ann Hum Gener 30:13-24, Jul 66.

 JANSSON, I. Actiological factors in promoturity. Acta Obster Gymec Seard 45:279-300, 66.

Retrospective personal interviews of 223 mothers of 240 permuture infants and 223 mothers of mature infants been chang the same period (March 1, 1962-February 28, 1964). The etiology of prematurity is discussed, based on differences found and a review of the recent literalists. In 45% of the permature births, an obvious cause, such as sovermia, multiple programmy, placental complication, or fetal mailformation could be established. In the remaining 55%, general factors connected with premutarity, such as maternal age, marital states, gravatity, accioeconomic condition, and constitution are believed to be at more importance. The significance of transary infection and amoking during progentory is discussed. Some groups of pregnant women with intrepred risk of premature birth are defined, and measures intended to decrease the rate of prematenty and presental montainty are outlined. 9 tables. 22 references. (AEd)

 JAYANT, K.
 Birth weight and servival. A hospital servey repeate after 15 years.

Ann Hum Genet 29:367-75, May 66.

A mirror of influent form in University Celling Hospittal Lending, dering 1950-53, 1957 and 1950 with appear reference to birth weight and survival. Results are core preed with survival of influent to seeing 1935-66 in this same hospital. A significant lowering of mortality rates are found. There was an increase in the meant britt weight of survivales and all britis, an contrast to a discrete in mean better but explicit mention and contrast in meant better the meant british weight of survivales and preed in the meant british weight of survivales and preed in the meant british weight of survivales and preed in the meant of the meant british weight of survivales and preed in the meant of the meant british weight of survivales and the meant of the mean

JAYANT, K.
 Effect of parity on optimal and cutscal birth weights.
 Ann Hum Gener 29:363-5, May 66.

Mean belief weight of a serveror generally successes, with purity, the primipure lawage the lowest mean blirth purity, the primipure lawage the lowest mean their hard purity, the primipure lawage to the law of the law of

 KATZ, C. M., TAYLOR, F. M.
 The incidence of jow buthweight to children with severe mental retardation.

Amer J Du Child 114.80-7, Jul 62. Records of 573 dilidren institutionalized for sovere meastal retardation were reviewed. IO scores were below 51 for 273 (84%) of the 325 patients who had been texted. Cause of retardation was not known for 63% (undifferentiated group). Incidence of birth weight of 2,495g (5.5 lbs) or less was significantly higher for the total retarded population (25%) and the undifferentiated group (25%) than for the general population of Pennsylvania born in 1955 (7%). The incidence of birth weight of 1,588g (3.5 lbs) or less was 6% for the total reserved population and 8% for the andifferentiated group at compared to 1% for the general Pennsylvania population, It was shown that the very high meidences of low birth weight and very low both weight for the setandates could not be dute solely to economic factors. 8 tables, 15 refer-

535. XERNEK, C., OSTERUD, IL, ANDERSON, B., Palterns of prematurity in Origion. Northwest Med 55:639-42, Apr 66.

Prenature births and birant deaths in Oregan incruse as family incomes obscurase. The Interns is the only exception. The laborer, farm bisoner, and ure "I monitors that there there are many pressuants better and infinit deaths compared with the highest recleavescening groups. The compared with the highest recleavescening groups. The way to be the presentation of the compared with the highest recleaves and the presentation of the compared with the highest reclear that the compared with the comp

536, LOEB, J. Weight at birth and survival of newborn, by age of mother and total-birth order, U.S., early 1950. Vital and Health Statistics Series 21, No. 5, Jul 65.

Duty are from vital records on birth weight of children born in the U.S. during the first 3 months of 1950 and neoratal deaths among this group, Incidence of smanuturity was lowest for second-order births and for mothers seed 25-29. Median weight, however, increased directly with both birth order and ago of mother due, in part, to changes in the proportion of busy infants. Neonatality rates readed to follow the pattern for immatanty rates. but were markedly high for infants weighing 2,501g or more born to older mothers, 12 tables, (Ed)

537. MOORE, B. C. Relationship between prematurity and intelligence in mental retardates

Pedian les 38,1013-9, Dec 66,

Amer J Ment Defic 70 448-53, Nov 65 Results of a study of 137 promuture retordates in Anzona Children's Colony tend to support evidence that prematurity and mental deficiency are not only related but that the degree of severity of one may reflect that of

the other. 2 tubles, 3 references. (Ed) 538. NORTH, A. F., Jr. Small-for-dates neometry, I. Maternal, postational, and neonatal characteristics.

Records were compared for 3 groups of infants (1) small-for-date recentes (buth weight under 2,500g. 37-44 weeks sestation). (2) see-term infunts (under 2,500g, 28-32 weeks), and (3) "average" infants (3.000-3.500e, 37-44 weeks). The small-for-date neonates differed markedly from the pre-term infants in 15 of the 35 variables examined and from the "gromes" infants in 31 of the 35 variables examined. In the newborn period, small-for-date infants as compared with weight matched ace-term controls, had: (1) higher meldence of maternal toxemia and hypertension and of primiparous mothers, and (2) lower incidence of gostatrozel blooding, low birth weight oblings, peopotal complications and deaths, and houselytic and neimonary disease Gestational age, though subject to error in measurement, is as Important a predictor of neonatal clinical status as is birth weight. Future studies of antecedent conditions, neonatal course, and long-term outcome of low buth weight infants must consider both weight and govtational age 3 tables, 2 fapores, 16 references. (AEd)

539. O'SULLIVAN, J. B., GELLIS, S. S., TENNY, B. O. Aspects of birth weight and its influencing variables. Amer J Obstat Gruce 92: 1023-9. 1 Aug 65.

> Data from 5.883 prenatal patients were examined to variables influencing birth weight, Initial results indicated that maternal age, parity, weight, history of having borns a baby weighing 9 pounds or more length of extation, and sex of infant were all of northle simily. cance. Further analyses romoving overlapping effects of uttercorrelated factors were made. The significant offect of laying proviously borne a large balty... in no way negates nossible seneric explanations. Length of rosts tion has the greatest single effect on infant birth weight, Its use as an index of maturity is discussed in relation to difficulties in applying results from group data to an individual, 4 tables, 1 figure, 17 references, (AEd)

540. RAMIREZ CUELO, G., SEPTITN, J. M., ESPINOSA GARCIA, J Delivery of fetuses of 4000 grains or more. Gener Obstey Alex 20 931-6, Sen-Oct 65 (SP)

Among 13,488 deliverses in Mexico, D. F., the incidence of babos weathing 4,000g or more at borth was 2,11%, a tigure less than that for other groups studied. The incrdence of Caesarcan sections was linds. Statistics of various encounstances of the deliveries are given. It is concluded that the obstetrical future of the large felux is not unfavorable if an early degross is made and the cases are studied individually for their solutions. 10 references, (AA)

541. REINKE, W. A., HENDERSON, M. Smoking and prematurity in the presence of other varia-

Arch Emison Health 12.600-6, May 66. An analysis of data on 3,156 Negro women who delivered single, live infants his confirmed an association between milant sex, maternal smoking habits, and birth weight and has revealed other factors of importance. Maternal preparate weight in relation to height is clearly associated with infant birth weight and the probability of prematurity Parity is also related, but to a lower extent. These factors fall lar doort of explaining promiturity, since they yield a multiple correlation coefficient of anomymatoly 0.2. Smokery apparently influences the prematerity rate. Multiperous women of normal weight have a low risk of promaturity unless they anoke. The results flow a need for studies of the cumulative effects of sucking as women grow older and increase in world and nority. The launted number of observations in the present study along with the strong correlations among the above factors provent first conclusions in this area. 8 tables. 2 tagsues. 15 references. (AEd)

800. RUSSELL, C. S., TAYLOR, R., MADDISON, R. N. Some effects of smoking in pregioncy J Ghatet Gynace Brit Comm 73:742-6, Oct 66.

542. SANTINI A Weight increase of the premotine infant in the first year of life.

Latrange 36:450-5, May 65. (IT) A study in Cremons, Italy, of 100 newborn premute

infants, thruled may three classes according to weigh (1,000-1,500g, 1,500-2,000g, 2,000-2,500g). Media monthly mercase in weight was compared with that a pembors infants of portral both weight. The author concludes that though with a delay computed to a miture infant, the premitters infant comes to have toward the end of the first year a total increase in weight almost ax great and sometimes greater, so that he actually succoods in reaching the weight of the muture infant. 2 tables. (AEd)

543. SARRAM, N., SAADATNEJADI, M. Birth weight in Shiraz (Iran) in relation to maternal sociopoponemic status. Obstet Gruce 39:367-70, Sep 67.

> Average birth weight of bubies born in the Shirux area compared with U.S. data. Average birth weight of Iranian bables among indigent mothers is significantly less than among private patients. It is also significantly less for all bebies born in the Shirax area than for American

white newborns. The difference between average birth weight of framin newborn sincing practic patients and American southbus newborns is not vataristicilly against cast. The suggestion is made to establish lower huntry of their weight repeating autour and permission inflato, among habites born in Iran. 6 tables, 14 references, (ACM)

544. SHAPIRO, S., UNGER, J.

Weight at birth and its effect on survival of the newborn, U.S., only 1950. Vatal and Health Statistics, Series 21, No. 3, Jul 65.

Statistics on materiary at both sterred from real records for fullers from in the U.S. during the first 3 months of 1550 and accounted deathst among their group, 756 of all rests weight C.S. golden et so. and command amortality waste 17.7 per 1,000 compared with 7.8 for other born during the command of the control of th

white and nonvelies infants. 6 tables. (AEd) 545. SIEGEL, M., FUERST, H. T.

Low birth weight and maternal virus disenses. A prospective study of rubella, measles, numps, chiefengow, and hapatits.

JAMA 197:680-4, 29 Aug 66.

A prospective study on maternal virus diseases occurring 1957-1964, disclosed an increase in frequency of screens. tursty following kepatitis, measter, and rabella. The occurrence of low birth weight was largely related to retarded intrintenne growth following rubella and to permature osset of labor in hepatitis and necades. Data for mumps and chickenpox in mothers revealed no assocration with prematurity. There appeared to be no agreficence in the varience of rebella views greenwheat an epidemic and nonepidemic years as determined by the from curry of low birth weight. These results agree with those previously reported for fetal deaths in the same affected population. In a study of reatered virus diseasos, an interrelationship was found between permatanty and other fetal effects of maternal infection, such as fetal death and congenital defects. 7 tables. 30 seferoness. (AFd)

 SPENCER, R. P., COULOMBE, M. J. Observations on fetal weight and gestational age.

Growth 28:243-7. Sea 64.

A persoully derived equation, existing fertal weight to postetional age, contains two tense wheth night differ between pepulstans. Holder is the measurement, an approximate lawer relationship is therein surface, in racen the second tens and the percentage is the which the racen the second tens and the percentage is the which the fertal weight first, Although the is misstal approach, the technique augusts methods whereby feest weight from different populations might be compared. 2 different populations might be compared. 2

dugrants, References. (AA)

47. SRSEN, S.
Intravorticular hemocrhage in the newborn and 'low
beth-weight'.

Develop Med Child Henrol 9:474-80, Aug 67.
This paper is based on 10 years' research in the reconstal

This paper is based on 10 years' research in the neonatal department of the Obstetres Clinic at Kosic. In newborn

refuses been after but dvine before the 10th day, intraventnester homostrage has been observed in 13% of autonous and their infinity common 42% of the total cases of intracranial hemorthism. The messence of intraventricular hemorrhage is significantly higher in newborn infants of low both weight than in those weighting 2.50 te or more. With decreasing both weight, the pronortion of intraventricular hemorrhage to the total cases of intracronal homoschape gradually mes. In miante with the lowest both weight introventricular bemouthout occurs more frequently in isolation than in combination with extraventricular hemorrhage. After evaluating the influence of letal are, birth weight, and body letitth, it is emphasized that true prematurity (low greational age) is manily responsible for this type of intercranini honorringe. 4 tables. 4 figures. 14 references. (AEd)

548. UNCER, J. Weight at both and survival of the newborn, by goographic divisions and urban and reural areas, U.S., ently 1950. Pitel and Bealts Statestics. Series 21, No. 4, Jul 65. Data from with records on birth weight of children hora.

or the U.S. during the first 3 months of 1930 and instead allotted managed into goal for each off-vision and amount and the same gain goal for each off-vision and respective to the same strengthing country. The process with burstle wide 200g or less or which yet except the first less of less of less of the first less of less

549. VALAES, T. Interactoring growth and mortality. J. Pedier 71: 150-1, Jul 67.

it. J. vin Den Breg and J. Versensteiny on Instrusional growth and bue Software legislations and the rist installable growth and bue Software legislations are for rist installable and the second section of the control of the contro

"Letter to the editor" takes used with an article by Drs.

550. VAN DEN BERG, B. J., YERUSHALMY, J. The relationship of the rate of intrasterine growth of infants of low birth weight to nonrisity, morbidity, and coagustial anomalies. J Polite 49:531-45, Oct 66.

infants with rapid intrautorine growth rates (IUG) conpared with other low birth weight infants inst-(1) almost twice the meenstal mortality, (2) higher medicate of severe contality through age 2, (3) higher medicates of severe congratial amonaties, (4) integer need of merchator care, (5) longer says in hospital after bath. After the mensatia period, affants with rapid IUC rates had fewer infenses in the first year of the and overtooth the low both weight infants of very about IUC rate in weight and height infants of very about IUC rate in weight and height infants in the agreement or and the control of the length and incen had executed the control of the length and incen had executed earlier and acted in the long that the control of the long that the weight and postation is in important and acted intex. 9 tables. 5 figures. 28 freedermen. (AEJ)

 WEINBRENNER, L., ROBACZYNSKA, G. Observations on the influence of occupation on the weight of newborn infants.

Med Pracy 16:242-5, 65. (POL)

Data on buth weight of infants from 2 groups: (1) women working in a clothing industry, and (2) women not working. Primitipless pecidomisated among workers, multiparas among nonworkers. These were no important differences in buth weights of the infants been to the two groups of women. Careful medical attention of pregnant women provided by that particular clothing factory may explain the back of difference 2 tables 1 figure. 11 references. (Ed)

 YERUSHALMY, J The classification of newborn infants by buth weight and gestational age. J Pallet 71:164-72, Aug 67.

> Recognition that how both weight infants do not reprement a intergenteer group provided retrieval in printational age as an important adjacen to both weight in the chrollectation of resolven infants. This paper discuss to the properties of by means of both weight and gostational age. An aitempt is made to formulate objection at purposes of such a close/faction, Octonic dissolitation systems in use, such as the proceeding of the properties of the prosident of the properties of the properties of the widenic for closelying boths in five groups it suggentee. 3 titles 1.8 figures (AA)

### C. MATERNAL MORTALITY

#### SS3 ANONYMOUS

Further reduction in maternal mortality.

Statist Bull Metrop Life Insur Co 46 6-8. Jun 65 These has been a downward trend in mortality associated

with pregnancy and childbirth. In the U.S., 1962-63, the moter-al death rate was about one in 2.815 berths. Mosernal mortality is still about 4 times as high among nonwhete as amone white women throughout the childbearing ages. Childbearing has become safest for women in their late trens Geographical differences are discussed. Recent studies indicate that an approcubic proportion of maternal deaths are avoidable, 3 tables, 2 references. (Ed)

#### 637. ANONYMOUS

General saformation on maternal and infant mortality. Bull Inst Nat Sante 21 919-28, Sep-Oct 66, (FR)

#### '. ANONYMOUS. Maternal deaths.

Brit Med J 2 319-20, 6 Aug 66,

During 1961-1963, these were 2,550,252 births; 816 maternal deaths were directly due to programey. Four main causes in order of frequency were shortion (139). pulmossey embolism (129), toxemin (104), and heinorthage, 55% of the abortions were illegally procured, "Avoidable" factors were found in 16 the deaths from to centa because of poor prenatal care, laxness of plays, cians, or poor home conditions of nations. Alterether avoidable factors were present in 262 of the 692 deaths analyzed. (Ed)

# 1955,1964

ANONYMOUS. Maternal mortality report for Olso. A 10-year survey,

Ohio Med J 63 323-32, Mar 67, A survey of maternal deads in Ohio, 1955-64, is presented by the Committee on Maternal Health, The maternal death rate decreased from 4.3 (1955) to 2.5 (1964) per 10,000 less births. Analysis of 779 of 1,080 deaths revealed that homoerhage (206), infection (157), and toversia (86) accounted for 58% of maternal deaths. The autopsy rate was 73%, and 90% of the patients died in hospitals 65% of the deaths were voted preventable by the committee after careful study of each case, 18

references. (Ed) . CARPENTER, C. W., BRYANS, F. E. Maternal mortably in British Columbia A study of 145 deaths from 1955 to 1962

Concil Med Ass J 92:160-70, 23 Jan 65. A study of 145 maternal deaths (0,422) in the Province of British Columbia, 1955-1962. Direct obstetrical deaths occurred in 100 cases. Hemorrhage was the most common (40), followed by vascular accidents (23), infegtions (17), tovenia (10), anesthesia (5), and other cruses (5). Significant prolitable factors were noted in 80% of these direct obstetrical deaths. Indured obstetrical deaths occurred in 29 cases, 65% were felt to have avoidable

factors, 72% of all maternal deaths were felt to have significant avoidable factors, 40% to 50% of deaths were intimately involved with social factors. 7 tables. 5 figures. References (AEd)

#### 557. FOX. L. P. Abortion deaths in Celifornia Amer J Obstet Grace 98:645-53, 1 Jul 67

223 abortion deaths, representing 21% of all maternal deaths were studied by the Maternal Mortality Committoe of California. Socioeconomic and ntedical data intll-

cate that the majority of those abortions were selfanduced by emile methods which were quickly lethal with % of the women dying either before arriving at medical facilities or within 2 days thereafter. The white, low-meane, gravida new housewife in the use group of 25-29 years and experiencing her first abortion was the usual vactum. Most fatalities occurred in the highest populated areas, Expeditious treatment directed toward control of irreversible shock from sepan and other destructive entities was to little avail. Avoidable factors were in the majority assigned to the patient or her abortionist with a few professional errors related to overscalous effort. I table, 6 references. (AA)

#### SSR. GREEN, G. H. Maorl maternal mortality in New Zealand. New Zeal Med J 66.295-9, May 67.

Investigation of causes of pacual distribution (Maori and non-Massi) of 795 "true" maternal deaths in New Zealand, 1946-1965, Muori maternal death rate (1.5 per 1.000 live births, 1946-65) was twice that of non-Maoris, The death rate from obstetric hemorrhage, complications of labor, and "associated" disease was significantly higher in Maoris than non-Maoris, while that from toxcann of pregnancy and roptic abortion was agaificantly lower. The standard of ante-end intra-ental core for Macris must be improved and some suggestions as to how this can be effected are made. 4 tables, 1 figsuc. 6 references. (AEd)

559. JANSSEMR 1 Maternal mortality and the level of obstetric case, Pundemonstric for improvement, particularly in the Nother-

#### lands. T Soc General 43:657-62, 667, 10 Sep 65.

Present type of registration of maternal mortality in the Netherlands is Imagequate, Maternal deaths from specific causes in the Netherlands and in Scandingvin, 1950-52 and 1960, see presented, in both seess, the proportion of deaths due to hemorrhage has increased, is the predominance of home confinement over loopital confinement justifiable? The importance of midwives is explained, and the absence of an increase in frequency of maternal death by abortion is noted. To improve obstetrical care and to reduce risk of death in programmy and childbirth requires provision of better research facilities, training, and improvements in obstetric organization. Specific recommendations are made, 4 tables, 15 references, (Ed)

- KORNILOVA, A. J. Socio-hygienic problems of maternal mortality in the capitalist countries.
  - Sinte Publique (Bucur) 8:323-34, 1965. (FR)

    An analysis of causes of maternal deaths in many of the
  - capitalist countries, giring number of deaths in 1960-62 for some of them, and 1956-58 and 1960 settleness of causes of maternal deaths in Sweden, U.S., Japan, and West Germany. 2 tables. 36 references. (AA)
- STEVENSON, L. B. Maternal death and abortion, Michigan 1955-1964, Mich Med 66:287-91, Mar 67.
  - Abortion is responsible for an increasing number of material deaths in Michigan since 1960. Data are given for material sourtails due to abortions by gestation duration, parity, race, and associated causes. 9 tables, 1 reference, (Ed)

#### D. CONGENITAL ABNORMALITIES

#### 562. ANONYMOUS

The notification of concentral abnormalities to the general register office. Monthly Bull Munst Health (London) 23:204-6, Nov.

Statistics for the first 3 months of 1964, as reported under the new scheme for notifying the General Register Office of meadence of consental abnormalities observable at both in England and Wales. Findings were in general agreement with those of survey made in Birmingham. 1950-52. Incidence of specific mulformations is given The following occurred most often in the first murter 1964, takees (4.2%), cleft his (2.2%), soons bifida (2.0%), anencopitalus (1.53%), and hydrocephalus

#### 563. ABOU-DAOUD, K. T.

Congenital multiormations observed in 12,146 burths at the American University Hospital in Betrut, J Med Libra 19 113-21, May-Jun 66.

(1.47%), 2 tables References (Ed)

Information on 139 congenitally malformed infants and thou mothers observed in the American University Hospital, 1955-1964, compared with a 5% sample of total births. There was no difference between the two groups with respect to age of mother or hospital class. A higher parity was observed in the malformed group. Malformations were observed more frequently in males than in femples Anencephalus, in contrast to other records, was observed in both seves consilly. In this series, realformations occurred more frequently in Nosless than in Christian infants, 6 tables, 7 references (AEd)

#### 564. ALBERMAN, E. D. The causes of congenital chib foot. Arch Dir Child 40:548-54, Oct 65.

Among below been in Ouren Charlotte's Maternaty Dospital, 1958-1961, there were 170 with foot deformities, an incudence of 141 per 1,000 total births. Associated neurological malformations were often found in bubies with talines enumovirus, and a family history of costell nervous tystem melformations was unduly common. No such associations were found in tables with talipes calcaneovalens, but there were indications that the condition was related in some uny to concentral dislocation of the hips. The apparent susceptibility of makes to talines commoverus and females to talines culcanopyalgus is discussed in the light of their equarted association with anomalies of chromosome constitution, 7 tables, 28 references, (AEd)

#### 565. ALTEMUS, L. A. The incidence of cleft lip and palate among North American Negross Cleft Palate J 3:357-61, Oct 66.

Study of incidence of cleft iin and/or points among Negro children born at two hoselfals in the District of Columbia over 10 years, One hosestal, D.C. General, had a high proidence of builts to mothers of the lowest soologonomic group, and the other, Progreen's Hospital, had mothers of somewhat higher successoriants class More clefts of every type were found in D.C. General. Birth records at D.C. General were further surveyed for the incidence of clefts over 14 years 60 eases were found. Incidence was related to sex, type of cleft, birth weight, birth order, and age of mother. There was not sufficient information to correlate age of father. Buth order of the infint was 1, 2, or 3 most often Those whose birth weights were 5% lbs, or less had fewer elefts. Males to every category had more clefts, 6 tables 11 references. (AEd)

#### 566. BABSON, S. G., OSTERUD, H. T. THOMPSON, II. The congenitally maiformed. IX Congenital maiformation and the low birth weacht infant. Northwest Med 65:729-32, Sep 66

A 6-told increase in incidence of mortality among infants with birth defects occurs in small premature, moderated mature, and large premature infants over that found in normal stred mature infants. Thus, growth disturbances, relative under or over nutration in utero, as well as prematurity are associated with a lugh risk of concental malformation. Attention to warning signs will aid the physician in early identification of potentially lethal but possibly correctable defects in the newborn, 2 tables, 1 chart. 4 references (AA)

#### 567. BAILAR, J. C., 3D. GURIAN, J. Congenital malformations and season of birth: A brief roview Errorn Overt 12:146-53, Sep 65.

Many territogenic factors, especially infectious diseases. have a seasonal nattern. Correlations are made between date of birth and the occurrence of congenital mulformation. The data on cleft palate and harolin show so regular patterns. Pindings of scasonal samptions are cited and possible explanations are suggested. Sessonal cycles in births of infants with certain congenital malformstions have been demonstrated beyond any reasonable doubt. However, many important questions remain

### 568. BARON, J., KUCZYNSKI, J., PYDZIK, T.

unanswered. 3 tables. 29 references. (AEd) Amilysis of developmental mulformations of fetuses and newborn infants with particular reference to maternal Griek Pol 37:1085-94, Oct 66. (POL)

Analysis of fetal congenital malformations detected during 61/2 years of observation in 31,857 deliverses, 586 malformations were detected numericately after birth or to the 10th day of life, the most frequent being neuroectodermal (anoncephaly, schistorachis, and meningocolo), dofects of heart and vessels and of the erogenital and musculoskeletal systems, cleft lips/palates; 46% were among females, 54% among males; 47% among primiparous mothers, 53% among multiparous mothers (with more anencephaly among primiparas). 31% of the malformations were in premature infants. Perinatal mortality was 41%, the most common

causes being heart detects and alliesentary teact malformations. A street correlation between the age of the mother and detection of fetal audiformation was found only in cases of mongolism. I table. S figures, 15 references. (AFA)

1945-64. Pub Henith Rep 82:621-6, Jul 67.

569 BELLOC, N B.
Deaths from congenital heart disease in California,

The major portion of deaths from congenital cardiovascular malformations in California, 1945-64, occurred in infants, and the death rate was 25% higher in Negroes. Now, however, children born with congenital heart disease live longer, as indicated by the increased proportion of deaths due to defects that occur in older nessure. Surgical operations were listed for 26% of death certificates for persons with congunital cardiovescular malfornumbers in 1964, an increase of 11% over 1955, but death rates from this cause have declined at almost the same rate as overall death rates for infants and children under 5. In recent years, the death rate has been increasing in the age group over 20 years in which 30-40% who died had had singery. In age group 5-19, the death rate increased but by 1960 had begun a downward trend which continued until 1964 and hopefully will continue. 3 tables, 4 figures. (AEd)

 BISHOP, E. H., ISRAEL, S. E., BRISCOE, C. C. Obstettic influences on the premature influen's fast year of development. A report from the collaborative study of ecrebral paley. Other Grung 26:528-15. Nov. 65.

Analysis of proposition and demonstrated that at the Analysis of feet position for some intention who arrows the feet mass included an arrobation and arrows the feet position of the proposition of the feet position of the proposition of the birth weight. This risk of attentionality is belightened faction by incursable proposition of the birth weight. This risk of attentionality is belightened faction by incursable proposition of the proposition o

571. BOCK, H. B., ZIMMERMAN, J. H.
Study of selected concentral accessive in Propertyleman.

Pub Health Rep 80:446-50, May 67. 235 cares of imperforate anus, omphalocules, trackenesophageal fistulas, diaphragmatic hernias, and intestinal obstructions were found in 216,005 lafaets bern in Pennsylvania during 1962 (1/1000 births). 88% were strid on haspital questionnaries and 55% on birth certificates. Of the infant deaths, 89% were reported on the death pertificates as caused by these concenital anomalies. 32% of the bables with these defects weighted 2,500 grams or less at bleth compared with 8% of all babies weighing this little. Age of mother and birth order were not significantly different between babies with these defects and all babies. Over 50% of babies with these anomalies died before I year of age. This study wriffes that convenital malformations are not reported completely and accurately, particularly on birth certificates, 7 tables, (AEd)

572. CHARLTON, P. J.

Seasonal sunation in meldence of some congental mulformations to two Asstralian samples. Med J Aust 2:833-5, 29 Oct. 66.

Data from Children's hospitals in Addatide and Brisbago were unspected for existant variation in the mandesion of children mider in part of congruind calculation of the part of the part of the part of the part of the tips. Results are conquired with previous studies. The children part of the part of the part of the part of cast ventions. Conquirtal divocation of the bits, on the other hand, disoured a significantly invessed institute in other hand, disoured a significantly invessed institute in order to be a part of the part of the part of and allow in Burniellum. (AFG)

 CHITHAM, R. G., MACIVER, C. A cytogenotic and statistical survey of 105 cases o mongolism. Ann Hum Gener 28:309-15, May 65.

An unaclected senses of 105 cases of mongoleon was kneyotyped by culturing from the thood only in 93 mostances, from the skin only in 9 instances, and from both treams in 3 instances 5 examples of transformtom and 3 of mostalishne were sitellifled. Analysis of insternal age incidence suggests that about half the cases were caused by conditions independent of meaning are. 2

tables. 4 references. 2 appendixes. (AA)

574. CHWALIBOGOWSKI, A., KRYSOWSKA, A., NOR-SKA, I.
Fate of children after both injuries of the central

Fate of children after both injuries of the central nervous system. Fediat field 39:1037-44, Sep 64. (FOL) 336 minute born at terms, in whom these was central nervous system damage in the perinatal period, were observed. The infants were divided into 3 groups according to fits vessely of dismuse. Studies were carried

and in 775 of these appl 3.5. In 4%, only scribent just developers, in 9% these twen personality (baspens, An association was found between periorital tuning of the contral increase system and considerable reactation in montal, speech, and matter function development. J table. References. IAID.
575. COLLMANN, R. D., KRUFINSKI, J., STOLLER, A.

 COLLMANN, R. D., KRUFINSKI, J., STOLLER, A. Insidence of infectious hipather comprised with the incidence of catifera, with Down's syndrome born nine security later to younger and to older mothers. J Ment Diglic Res 10:266-8, Dec 64.

liating perionive established that the institute of Down's Syndromic rose 9 months after accused indidence of infective hepatitis from 19522 to 19534, we have examined this association as the present paper in relation to maternal age. The results toldente that the association depends to a major degree on the increase of all/steed blirths to moltient aged 35 years and older. I table. 4 neffections. (AA)

 CONWAY, H., WAGNER, K. G., Incklence of clefts in New York City. Cleft Paints J 3:284-90, Jul 66

> A survey of cleft lip and pulate among live births as exported on birth certificates in New York City, Rose, personnelly, age of sockler, and see, of the offspring all showed warrations in the overall incidence of eleft lip and callet. The male with cloft coduct is severely afflicted

with analytic automatics, especially in association with prematurity. He is more secondly affected in all 3 automatics and the incidence of automatics in increased 2 to 8 times, regardless of sex, in premature infants. 12 tables 4 references. AFEO

 DAY, R. W.
 The epideanology of eliromosome abstrations date: J. Hum. Gravet. 18:70-80, Jan. 66.

Significant differences in distribution of patients with chromosomia binomialistics in spece and more led by selected host characteristics have been observed. While for epidemiological staties of an anaphidaly lines been for explaint of the selection of the selection of the locs may be important in the origin of road-quinction Advances can be anticipated by prospective opidemoslefact techniques. However, methodological problems include the brige numbers needed for suresligations, the necessity of speedic dispenses, and the association to the selection of the selection of the selection of the contraction of the selection of the selection of the contraction of the selection of the selection of the contraction of the selection of the selection of the contraction of the selection of the selection of the contraction of the selection of the selection of the selection of the contraction of the selection of the sel

578. DONAILUE, R. F.

1958-1959.

Bliffs variables and the moldence of cleft points: Parts I and II. Clept Palete J 2:282-90, Jul 65, and 4:234-9. Jul 67.

Copy rates? 21222-90, jut 05, and 4129-97, jut 0. 6,700 laften with cleft pallet and/left pulser identified among \$2,33,355 birth records from 17 state departments of with affective. A control group, selected by record, was competed for sex, color, plussity of birth, sustened and peternal ago, brith order, length of pernancy associated with anomalies, classification of cell, complexities on Operancy, and resent certain cere. More of complexities on Operancy, and resental cere. More of complexities on Operancy, and resental cere. More of cell-type of the compression of the control of cells, cell-type was compressed to that reported by colorcell-type was compressed to the reported by color-

investigators. 13 tables. 47 references. (AEd) 579. DUFKOVA, H. Registration of congonital developmental defects. Cash Pather 23:361. Apr 66. (CZ)

No English summary,

SBO, FRIJARDT, C. L., NELSON, F. G.
Reported consential multiprostrions in New York City.

clame J Public Health 54:1489-500, Sep 64.

Reviews dat, from extains what records of congrenate and former than 15 me extra the records and september of the records and so arbitrary cutrictions about our off these records and so arbitrary cutrictions about our off the emergy to Sachharle routine handling of the data Intellects a summary of sensions noted within each office major types of congonital malformations. Points out for use, in cutdended and summary of sensions of the major types of congonital malformations. Points out for use, in cutdended and that office use, in cutdended and that off concernated applications and the control of the

milions. 8 tables. References. (Ed)

581. PORSSMAN, II., AKESSON, II. O.
Note on murtality in patients with Down's Syndrome.

Jalent Defin Res. 11:106-7. Jun 67.

A method to compare mortality of patients with Down's syndrome with that the a corresponding normal population. The anumber of years the studied persons survived during the period of observation was divided by the number of years an email number of persons of exactly the same age could be expected to survive. The ratios are compared with actual data from Sweden. There is fairly good agreement for male moragels, but for females, actual mortabity in the early age group is nucle higher; in the later age groups, lower 2 tables. 4 references, (Ed)

 GILMORE, S. I., HOFMAN, S. M. Clefts in Weconsm: Incidence and related factors. Cleft Polate J 3:186-09. Apr 66.

Burth certificate date and supplemental information from the Bisseau for Elisalizacipsed Children, Shoccania, malyzed for 2,166 (skif lip and/or public births, 1941-1962); Incidence one 20 years was 1,1812 the burths 1941-1962; Incidence one 20 years was 1,1812 the burths 1941-1962; roce, month of birth, burth erder, burth weight, material ge, paternal age, utular-wast readrence, complements of labor or ofdivery, other congenital ascungisce, fusual aggregations, and provious regionaments abstracts. 31 aggregations, and provious regionaments abstracts.

 GOLDSTEIN, H., HENDERSON, M., GOLDBERG, J. D. Perinatal factors associated with strabamus in Negro childron. Amer. J Public Health 57: 217-23, Feb 67.

> Four hundred and six Norro single births, born since 1950 in Maryland and diagnosed with stubismus before 1964, were studied retrospectively. A birth certificate control was selected for each case matched according to race, sex, physikty, hospital of delivery, age of mother, and date of delivery, Children with other disgnosed neurological conditions were excluded from the case group. Significant findings for the case group were: (1) lower average birth weight, (2) higher prematurity rate, (3) shorter duration of pregnancy, (4) more immuturity (weight less than 2,001 gins and gestation less than 36 weeks), (5) greater proportion of mothers with at least one previous pregnancy loss (abortion or shilbirth), and (6) higher proportion of major abnormalities at birth or shortly thereafter, the difference confined principally to respiratory conditions eausing a nova. Hospital records showed similar frequencies, between cases and controls, of specific medical and mechanical complications of programmy and delivery, 7 tables, 22 reformers, (AEd)

 HALEVI, H. S. Congenitel mulformations in Israel. Bril J Proc Sec Med 21: 57-77. Apr 67.

The purpose of this study in Israel, 1991-1964, was to samine costs of congesial millionation as roughled by dectors, etc., as their and utring spectral loopstimes ago of mother, parity, sustain of both, ethnic origin of mother are given, in the International Classification of Decases and Causes of Death (1977), there is no differentation between an optional classification of Decases and Causes of Death (1977), there is no differentation between an optional and a congression distinction. The purpose describes and discusses data to table 1975 and 1975 and

 Hay, J. D. Population and clinic studies of congenital heart disease in Liverpool.

Brit Med J \$515:661-7, 17 Sep 66.

Previous attempts to estimate incidence of congenital baset disease are reviewed. The Liverpool Malformations

Regulty is described and the difficulties inherent in the type of meetilgation are emphasized. Notifications to the Largepool registry suggest as lower invitation than that recorded from some other centres, but the figure is kelled to the constraint of the contract of t

 HAY, S. Incidence of clefts and parental age. Cleft Points J 4:205-13, Jul 67.

A study of over 6,000 cases of colf lip and palate reported on both certificates. Inchesor was found to be successed among color parents when clefts were the only auditornation reported. The rechmodarly to personal gas and palate for color and palate for charge and palate for charge and palate for charge and palate for charge accumpation amountment of the parents and palate for charge accumpation amountment of the parents age was shown for cleft lip and pulse, for cleft palate, and for cleft lip. These results were suggested on further evidence for sudaple tensaction of these particular compenial amonetose. 9 tablets. 5 figures. 5 feeting the compenial amonetose. 9 tablets. 5 figures. 5 for cleft particular compenial amonetose. 9 tablets. 5 figures. 5 for cleft particular compenial amonetose. 9 tablets. 5 figures. 5 for cleft particular compenial amonetose. 9 tablets. 5 figures. 5 for cleft particular compenial amonetose. 9 tablets. 5 figures. 5 for cleft particular compenial amonetose. 9 tablets. 5 figures. 5 for cleft particular compenial amonetose. 9 tablets. 5 figures. 5 for cleft particular compenial amonetose. 9 tablets. 5 figures. 5 for cleft particular compenial amonetose. 9 tablets. 5 figures. 5 for cleft particular compenial amonetose. 9 tablets. 5 figures. 5 for cleft particular compenial amonetose substitution of the particular compenial amonetose s

 HIGGINS, I. T.
 The epidemiology of congenital heart disease, J Chronic Dh 18:699-721. Aug 65.

> During the past 30 years, mortality rates for congenital malformations of the eliculatory system in the white population of the U.S. have declined in those under I year and increased slightly in those aged 1-14 years. For nonwhites, there has been an increase in both groups. Incidence of concenital heart disease (CHD) in the U.S., U.K. and Sweden is about 5 per 1,000 births. At least 20,000 babies with CHD will probably be born each year in the U.S. Some penetic factors possibly associated with CHD are: chromosomal abnormalities; familial aggregations, and recessive inheritance. Some environmental factors are: rubella coldenies, radiation, thalidomide treatment, season of both, and high plutudes leading to anoxia. No consistent associations have been shown between CHD and purental age, buth order, or social class. In the majority of cases of CIID, neither genetic nor environmental factors can as yet be implicated. The search for environmental factors would appear to offer the most promising line of opidemiological research. Studies of pregnant women and of women who have already borne a malformed child should prove fruitful, Variation of frequency of CHD in relation to tace, geography, altitude, background pradiation, and emdensic patterns are relevant to current etiological patterns, 7 tables, 143 references, (AEd)

 HOLMES, C., MACLEOD, K. I., BASHE, W.
 Birth defects registry, evaluation of a new program in Cincumnati.
 Obio Med J 62-563-9, Jun 66.

> In 1964, a Birth Defects Registry was inaugurated to obtain a base line measures value for birth defects in the Cincional area, Mans sources of data are hospetils, and birth and death registries, Hospital reporting of birth defects is noon, marticularly that relating to defects in

earlies buttle, but road licecime available of clustrag procedures were modified, or if fully interviews over conducted by health department personnel. At least one hospital has shown that a high level of performance is possible Birth certificates contribute relatively little. Double certificates contribute relatively little, Double certificates contribute relatively little, Double certificates contribute relatively little, Double certificates can enfective course in recordant deaths which must be manitanced so long as hospital deaths which must be manitanced so long as hospital death which must be manitanced so long as hospital death which are not sufficient to the properties of the contribute operating remarks good without the contribute of the contribute

 HORN, B., CSORDAS, T., DOMOTORI, J. On the problem of developmental anomalies. ZBL Greent 87: 1180-9, 28 Aug 65. (GER)

A shalv oil congenital developmental anomalists in the Bodingers Michael Jumenty Hopsuly, 1955-1962, 138 anomalists occurred—an includence of 0.61% which restanced the ware over the 10 years—47% were boys, 51-8% were girls, 1n-61 of the 138 cases, toological relationships, could be established, Infections through the criticitionships could be established, Infections through the year of the country of the cases of tables, 46 references, (AGI).

 HORNER, R., LANZKOWSKY, P. Inculence of congenital abnormalities in Cape Town, S. Afr. Med. J. 40: 171, 19 Feb. 66.

> A retrospective survey on 6,502 infants delivered at 2 materesty hosestals, University of Cape Town, Priority in these units is riven to prariity reas rotients, grand multiperse, and other women with medical or obstetrical constitutions. It would appear that sendence of consunstal abnormalities of all types in white infants is higher than in the Care colored, and higher than the mean determined from results obtained by 19 authors from different countries. This infot survey has the inherent fallacies sligged by most retrospective surveys, namely that it is dependent on a number of observers and accuracy varies with the degree of care, expensesce, conscientiousness, and method of the examiners. Because of these fallacies and the relatively small numbers involved, one must be cantions about drawing conclusions. The survey as propried in the hone that if will nemoke larger prospective surveys on this subject. 2 tables. 3 references (AFd)

591. INGALLS, T. H., KLINGBERG, M. A.
CORESMENT multipressions. Clinical and community con-

Amer J Med Sci 249:316-44, Nar. 65.

The epidems of pose-subsits anomalias in Australia, 1964-9414, and the gundems of findamiest embryo-patters is literage and developes, 1964-1961, have do-gundent for the gundems of findamiest for the gundems of the g

concentral malformations and to initiate clinical regive tnes of malformed belies. The bards of a standardized classification that satisfies both clinical and enidentoloss option is the need to hand, to duprose rapidly, to name, to record, and to report at least one (and by union the is the defect constituting the greatest handscap) of the many malformations that may be present and recognizable at buth. I table, 13 figures, References (ed)

593 JISPERSEN, C. S., LITTAUFR, J., SAGILD, U. Meanles on pregnancy as a cause of stillberth and malionmattern. A restrospective study in Greenland.

Ugrskr Lorg 128: 1076-80, 15 Sep 66. (DAN) The results of a retrospective investigation of 155 prognext women suffering from measies during various epidemon in Greenland are discussed. 33 women contracted mersles drings the first trimester and 1/3 of them ariscarried 14% of the live born infants had congenital deformaties, 18% were premature, and 23% died within the first year. (From Excepts Modica Sec 17, Vol 13,

593 JONES, W. R Anoncophalas A 21-year survey in a Sydney hospital.

No 6, June 1967 ) (Ed)

Med J Aust 1:104-6, 21 Jun 67. A sotrospective survey of anencophalus in a Sydney hospital own a 23-year period. There were 67 cases among 90,864 infants (0.74 per 1,000). The most important cinical association of atencephalus as hydramaios, an association facilitating diagnosis. An approach to the management of pregrancy that gives maximum consideration to the psychological state of the mother is suggested. There was a high incidence of associated congenital absocusables in this series; cleft polate was pressally common. 2 tables. I figure, 20 references (AEd)

594. KALLEN, B., WINBERG, J Expenences with contenuous registration of mulforum-

tions. Lebertsdeagen 63 1941-51, 18 May 66. (SW) The thabdomide cutastrophe brought to public attention different ways of preventing the use or limiting the effect of new tenatogenic drugs, Proclinocal experiments on anemals are of limited value. It is necessary to study teratogenic factors directly in human boings. Retrospocthe methods are of some value when mussial melformstions arise, but are vitasted by fundamental sources of error Prospective studies are too time-constaning for an early warning system. Since April 1, 1964, newborn belies with realformations have been continously registered in Sweden. The flist 8 months' results of this resistration are apported, 1,263 matformed bebies were included. This investigation may emdually give no idea of the "normal" frequency of various melformations and malformation syndromes and their spentaneous variation. It should then be possible, with the further continuces regulation of sulformations, to observe relatively quickly any change in the mulformation frequency and to take steps to analyze its cause, 5 tables, 4 fig-

mes 8 references. (AEd) 595 KARIN, N., BADAWY, S., EL-GHOLMI, A. Congestial mulformation in U.A.R. J Egypt Med Ats 49,611-8,66

> Study of congenital multipresations ut birth at Ain Sham University. Incidence was 2% the first two years of the

study. However, mencephaly accounted for 22% o malformations the first year and 40% the second Some cases were caused by thalidomide. Anonces occurred more often in Caucassans than in Negroe appeared to be related to meldence of spina-biffite meningocele, indicating an etiological relationship may be repeated at the same family. Other conge anomalies are discussed including hydrocyolinks, had and cloft pulate. 8 references. (AEd)

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investigation of congenital mulformations of the cinfeey system in live births in Leiden. 1958, and as underlying couse of death, 1951-62. Estimates encred representative of the Netherlands as a whole given for incidence and mortality. 2 tables. 11 re ences. (APd)

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Ann Paediat Form 12:Suppl 26 1-71, 66. Report of unselected stales of unvidus in the neavors Kiski-Suomi in Central Finland, 1963-1964. The oveney of malformations and of aburtions and stilling and subsequent deaths of children and their possi dependence on visious exogenous factors were study using a prospective method. The series incheded 3.6 mothers, 2.8% of the infants had mailformations, 1. were stillborn, and 0.8% of the programmics (17weeks) resulted in abortions. Steniffcant differences as found when these cases were compared with a cost group (no nathologies) for maternal sac, exorque varuses, and now of vitamins. Other findings are discusse In the comparison of the promective and retrospect methods, the prospective method proved to be me reliable than the setrospective method. 35 tables.

598. KLEMETTI, A., SAXEN, L. Prospective versus retrospective approach in the sean for environmental clusor of malformations.

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Amer. J. Public Health \$7:2071-5, Dec 67. A study to evaluate the reliability of retrospective stuies in the search for environmental causes of malform tions. A retrospective interview of mothers of 203 deor malformed children and of a control group of it same size. Renlies were compared with those obtained i a prospective study of the same mothers made in th fifth month of measurer. The comparison dealt wit information on the occurrence of nonchronic disease and the consumption of drugs during early pregrance The results indicated that only about 25% of the sec spectively collected information was accurately elicite in the retrospective study. In addition, the result shows that 2/3 of the positive realies in the retrospective studcould not be confirmed from the prospective interview

or information collected from other sources. (APd) 599. KUCERA, J., PELESKOVA, Comments on congenital defects in perinasal mortality a 1962 in the Czechoslovskian SSR. Cerk Pediat 19:846-\$1, Sep 64. (CZ.)

In 1962, 785 infants died (periontal and stillbirths) of congenital mulformations, 0.4% of all deaths. There we

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a correlation between such detects and advanced age of the mother, and economic conditions in certain regions: Congenital defects were most frequently confine defects and malformations of the insertial and univary tracts I table. 4 flavres, (ACM)

#### 600 LFCK, I Changes in the meadence of neural-tube detects,

Lancet 3:791-3, 8 Oct 66.

After declarer; in the period 1940-1949, the excitance of sencercipalities in Binnergham (Tag) years to a peak in 1956-57 and has seen faller again. The rate first quantities and explained exclusively period therein a period of the period o

#### LECK, I. Incidence and epidemicity of Down's Syndrome. Laucet 2,457-60, 27 Aug 66.

1.6 per 1,000 (\$13 - bilderea) out of 316,555 children born aftive ma Brimmiphum, Epident, 1950-1955, had Down's syndrome. This rate doored no significant changes after are requience of mideric bioquants. The state of the significant changes after are required to the significant change after are required to the significant changes after the significant changes

#### 602. LECK, I., RECORD, R. G. Stavonal incidence of Amencophalus, Brit J Prev Soc Med 20:67-75, Apr 66.

Introduce of amoreophalus showed furty convente spans of water to got her post and a summer to expend the state of the post of the state of the post of the state of the post of the state of the state of the post of the pos

#### 603. LINDQUIST, J. M., PLOTKIN, S. A., SHAW, L. Congenital rubella syndromo us a systemic infection. Statics of affected infants born in Philiodelphia, Pa. U.S.A. Brt Med J 5475:1401-06. 11 Dec 65.

Between July 1964 and March 1965, 40 mfants with serious abnormalities were beam in Philadelphia, Pa., Following a severe mobile spidientie in 1963-64, 20 of the infants were thought to be probable instances of rubellainduced disrage, showing enterests, feater disease, signs of systemic infaction including instance of the bones and bace-marrow. Rate of wans isolation from the natuplanyary of midelli syndrome infant was. 77% in this month of life, and declined at a register rate approaching care at 6 months of ago Setological andies are repeated concurrang the presence of neutralizing- and the absence of compliment-fromg antibodies at infants with careford to the macroglobulus function of setting protein. 6 tables 22 fluences, 30 seference, (Ed.)

#### LUMIO, J. S., PHRAINEN, H., PALJAKKA, P., Marringe between the dust and bereditery deafness in Finland. Acta Golde van (Stockholm) 62 265-76. Sen 66

According to the 1950 population comm, Fishinal Brill 2017 deri jere 100000 insulations, a sign figure. A Bill figure. A Good of the control of the control

#### MONIF, G. R., HARDY, J. B., SEVER, J. L. Studies in compenial subella, Baltimore 1964-65. L. Epidemiologic and vicologic hall Hopkies Hosp. 118.85-96, Feb 66.

LDBS preguent women were studied at Johns Topkins for possible office possible effects of the 1964 mibble spelmes. Of those who had rathella on the live transiers, 205 of the yeardones, For Lowe affected in this second transiers, and a state occurred from alterptic phaemia. Marbella we must as included from the phaemia to lost from the scheme are stated to control from the phaemia to lost from the scheme set as manifestation of the competitis shelfall syndrome in 3 of 8 affected inflants. In the group in which climited substitute occurred, picke bustory of disease bose into relative the control of the competitis shelfall syndrome in a control of the competitis shelfall syndrome in the control of the competitis shelfall syndrome in the control of the competitis shelfall syndrome in the control of the competition of the

# MORTON, W. E., HUIIN, L. A. Epidemiology of congenital heart disease. Observation in 17,366 Denver school children. James 195: 1107-10. 28 Mar. 66.

During an evaluation of heart denses secreting methods more [7.766 Everal products] stood eithers, congenier and heart disease (CIII) epidemiologic data were concerned and extended and some of application relation in the range method, between experiment strains, bend examine standed, between strains, bend examine as example, and considered strains, bend example except and production of the result of the control of the cont

other studies are related to their simpler screening mediods in is clear that most available CHD prevalence estimates in school children are underestimates 6 tables 25 references (AEd).

607 NEWCOMBE, H. B. Lamilial tendencies in diseases of children. Brit J Pres. Soc. Med 20, 49-57, April 66.

> in British Columbia, registrations of live births, stillbuttle, and deaths in infancy and childhood, together with records from a register of handscapped children and adults, were "lanked" by computer into family group-ings, 12.827 "affected" children are represented together with their unaffected brothers and asters from amone 215.795 children born 1952-58. Almost all the conditions studied showed some tendency to reveat in the brothers and sisters of cases. Among 20 selected conditions, walchy different degrees of familial association were observed "Monstrosety," blindness, and death from duarrhes were amone the most likely to recur in the Liter-born siblings of index cases, while congenital analformations of the circulatory system showed the smallest measurable familial tendency. A wider range of diseases may be more strongly correlated with social circumstances than heretofore thought. 11 tables. 10 references. (AEd)

608 NEWCONE, H. B., TAVENDALE, O. G Effects of father's age on the mik of child hundren or

Amer J Hum Gener 17 163-78, Mar 65. Sporsal risks to children associated with ago of the father have been studied from 8,928 registrations of child handicaps and deaths among individuals born in British Columbia, 1953-58. Handicep and death records were "linked" by computer to the birth registrations. The combined data for all courses show a significantly spcreased risk among children of fathers aged 45 and over This offect persists after possible contributions from a maternal age effect and the close correlation of fathers' with mothers' ages have been removed. A similar and statistically rignificant paternal age effect is observed for Expensiony diseases and consumited multiprocessors. Posses ble origins of the paternal age effects are discussed. Florated frequencies of mutant penes or chromosomes in the reproductive cells of aging fathers might perhaps contribute to the effect as seen in the data for congenital matformations. Such a contribution would be difficult to establish, however, without more information, 14 tables 3 figures, references, (AEd)

609 PENROSE, L. S. The effects of change in maternal age distribution upon the incidence of mongolum. J Ment Defic Res 11, 3-47, May 67.

Only two figures are available on the shoulder leadance of monogology in Information 2016. If \$13 and \$10 \text{Test}\$ is \$15 \text{CP}\$ of \$1931 and \$10 \text{Test}\$ of the second of recently and \$10 \text{CP}\$ of \$10 \text{CP}

610. PITT, D
Screening tests for biochemical defects in infancy

Med J Aust 1 487-90, 19 Mar 66

Universal tetting tetchniques for boochemistal defects among indust are reiseds, to that indicated terrotation may be instanted suby. The modestice service to be as high visited suby. The modestice service to be as high visited by until not only the substantial properties of the substantial terror which they until not be a substantial terror which they will not be a substantial terror of the incombant exercision of meet booklinks in the trans, a universal bodies testing substantial to the Goldens test. American experience modestics when of the Goldens test. American experience modestics with other Goldens test. American experience modestics with the Goldens test. American experience modestics with the Goldens test. American experience modestics with classification of the Company of the Comp

RENWICK, D. H.
 Estimating perosinese of certain chronic childhood conditions by use of a central registry.
 Pat Health Rep. 82:761-9, Mar 67.
 Estimates of minimal age-specific "purvalence" rates for

tubles. 2 fleures. 7 references. (AEd)

1964 of certain chronic discusso of children are made from data in the Central Registry in Bratista Columbia beginn over a decode ago. Problems in the actual rates obtained are discussed in terms of the completusees of registration of cases. 4 tables, 1 figure, 14 references, (Ed.)

 RENWICK, D. H. MILLER, J. R., COLLINS, J. F. Why sourch for congenital defects. Canad Med April 96, 1423-5, 27 May 67.

Registrics have snow uses in the study of composition defects: (1) as a calcular claving home or information and as a reformi limited senter, (2) for studies on provinces and some processor of the control of the cont

613. ROBINSON, N. M., ROBINSON, H. B. A followep study of children of low buth weight and control children at school ago, Pediatrics 33:423-33, Mar 65.

Comprehensive followay of survivors of martched ground of low seed mature birth weight infants, born in Wake County, North Carolina, when the children were 8 to 10 years old. A higher proportion of the liniest infants had sustained major physical defects (24% vs 2% in other groups). This group was agnificantly smaller in weight and head size, and tended to come from more disadvantaged socioeconomic backgrounds. Comparinous of data from physical and psychological examinations, social histories, and school reports tended to find only a few apuricant differences among the groups, all of which were probably related more closely to social background than to birth weight per se. The data indicate that, aside from physical size and major physical defects, social class assumes much more importance than does birth weight in determining a child's developmental prognosis. 5 tables, references, (AEd)

614. ROUQUETTE, C. A. French prospective survey on congenital insiformations: (Survey of the Institut De La Sante El De La Recharche Medicale). Concents Med 81: 6443-4, 6447-8, 6 Nov 65. (FR)

A survey to determine causes of congenital multionation of exponence origin. 20,000 to 30,000 cases, are to be followed from pregnancy to the birth of the chair and after. In the third month of programmery the weezer will be questioned. The subtant will be extented by a preliative can who, for the first year, with following the case in case the case in the case of the case of

# surveys are commented. (AEd) 615. SALLER, K. On the frequency of malformations in Bavana 3. Minochen Hed Wieler 107:262-4, 5 Feb 65. (GER)

The incidence of multicreations was at a minimum in brazara in 1963 compared with the statistics since 1959. Decreases in thislationade-type multicrunitions were most frequest but since they have not disappeared completely although the dung has been withdrawn from the market, other factors besides the dung may be related to these multicreations, Seasonal occurrences are discussed, 1 flgure, 7 references. (AEd)

616. SATO, M. Statistics on constantal abnormalities in Japan.

J Jap Olistet Gynce Soc 18:74-82, Feb 66. (JAP)
No English summary.

617. SCHURTER, M., LETTERMAN, G. The meadence of cloft by and cloft polise. An analysis of the literature with the addition of statistics. J Ann. Med Voya Acx 21 915-20. Nov 66.

> 150 studies of cases of eight lap and printer how been cannoted. A thirt paperties nample of over 22 emillion has been compiled, Overall mederos 8 1 n of 57 in between the compiled of the compiled of the compiled of the construction of the compiled of the compiled of the compiled posts, Macsana, and Japanessa. The tightes infedious or posts, Macsana, and Japanessa. The tightes infedious of New Energy (1/2073). Tables above the intellector of New Energy (1/2073). Tables above the intellector of of New Energy (1/2073). Tables above the intellector of office the part plate from bulber criticals, from boughts orecords, and a combination of both. Those from boughts or the compiled of the compiled of the compiled of the compiled way. See Princesso. (10) accurace. 3 bellets. Tables. 2 the

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Clin Proc. Child Hose (West) 22:181-29, Jud-seg 66.

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 SEGALL, A., MACMAHON, B., HANNJGAN, M. Congental malformations and biologround industron in Northern New England.
 J. Chrome Dir 17,915-32, Oct 64.

No entience of consistently elevated gates for all multionmations or of a consistent uncrease in paid with proposit to any unlikelihood enterprise of multinuminous was found in births to residents of the high bedrock radioestivity gates 7 tables 2 stages reforences, [Ed]

- 803 SIEGFL, E., CHINNOCK, R. F., HYMAN, C. B. Hemolytic disease of the newborn. Review of deaths in California. Calif Mai 105:81-8. Aug 66.
- 620. SIGLER, A. T., COITEN, B. H., LILIENFELD, A. M. Reproductive and muntal expenence of parents of children with Down's windroute (montalism).

J Pediar 2006014, Apr 67.

Ac epilormologies subjet present and shirings of 216 Ac epilormologies subjet present and shirings of 216 activation for mercund age at face of clink's bible, accommendated and financiance in frequency of describes, still constructed the confirmation of the chaldren with Denvir's synthesis that a higher properties of destine from acquired custom from darker for the confirmation of the chaldren with Denvir's synthesis than the first properties of destine from acquired suspects than the confirmation of the confirmat

#### 621. SIGLER, A. T., LILIENFELD, A. M., COHEN, B. H. Partental age in Down's syndrome (atongolism).

J Pedias 67:631-42, Oct 65. The relative significance of maternal and naternal age was evaluated as part of an enideniologic study of Down's syndroste as Baltimore, Maryland, Using a control group, matched by birth certificates, parental age was studied by controlling for maternal and then for naternal age. There was no positive statistical association of external are with Down's syndrome. The relationshrp between Down's syndrome and mercastd maternal are. however, remains unconivocal. The early secondary neak renorted necessarily in statemal are distribution in Down's syndrome was again found, and shown to be an artifact-a reflection of the high frequency of total births at this maternal age. Selection of reliable control data is the study of the parental are effect, both in Down's an other syndromes, was stressed. The adequacy of courte ages used in the study of the parental age offset in our trisomic conditions is outstinged. 7 flances. tables. 26 references. (AEd)

#### SILBERG, S. L., MARIENFELD, C. J., WRIGHT, H. Survillance of congenital anomalies in Missouri, 1953-1964.

Arch Eurobon Medith (Edicago) 13:641-4, Nov 66.
A pellinhary report of mireditine of congenital anomalies in Missoni, 1953-1964, disclosed 8,670 bath certificates with a letter ten algificant coognital anomaly recorded. Avringet amoust incidence was 7.4 per 1,000 be birds. Significant difference between consideration of the conference of the conference

palate, clabfoot, crannoquial, and external meetherial anomalies. Of total mailformations reported there were 6,800 cnew tail a single anomaly, 838 with 2, 549 with 3, 160 with 4, 42 with 5, 11 with 6, and 6 with 7 stormless. Contained surveillance of human as well as animal mailformations are planted, 3 tables, 5 roferences (1/6).

623. SMITHFLLS, R. W., CHINN, E. R.

## SMITHFLLS, R. W., CHINN, E. R. Spina biflida in Liverpool Develop Med Child Neurol 7:258-68, Jun 65.

Insufaces of spins infinis (each other enumes tribbum) as transport, largue, 1966-5, was 13-pc; 1000 tool terr, 1966-5, was 13-pc; 1000 tool over The too rather was 1.2 femals to 1; mole and this cline day of way with both weight of persistence. Occurraces of spins hiddle as an ortifact to the largels of the over the spins of the vecco of principators; a higher responsion 20-24 years of the spins of the spins of the spins of the spins of spins of the spins of the spins of the spins of first, an increase as the masters of mail/consect of the spins of the spins of the first, an increase as the masters of mail/consect first consecutions of the spins of the spins of the spins of first consecutions of the first consecutions and persistence of the spins of the the spins of the

624. STARK, C. R., MANTEL, N. Effects of maternal uge and buth order on the risk of

mongolism and loakeous J Nat Cancer Inst 37 687-98, Nov 66. Maternal are and both order effects on the risk of mangolism and bukemu were determined for children born in Michigan, 1950-1964. There was a striking association between maternal ago and mongolism but birth ' order did not independently affect the nik of morgolism. Both maternal age and birth order independently affected the risk of death from leukessea, the risk of death from lookerns decreasing with advancing berts ceder and increasing with advancing maternal ago, Except for the older maternal ago groups, these transfee leukernia are an contrast to the efforts of maternal age and both order on death due to all coases. This contrast suggests maternal age and birth order may be closely associated with the cliological agents of child-

hood leakenis. 6 tables. 34 references. (AA)

5. STARK, C. R., MANTEL, N.
Lack of seasonal-or-tomporal-spatial clustering of Down's

syndrome butles in Michigan Amer J Spedem 86:199-213, Jul 67. Data from 2,431 Down's syndrome buttles, 1950-1964, in Michigan were used to detect temporal-spatial clustering, It is concluded that Down's syndrome is coused by a factor (or factors) randomly distributed in time and space. The strong association between Down's syndrome etiology, nsk and advancing maternal (or paternal) age, and other epidemiologic and cytogenetic findings led to the characterization of Down's syndrome etiology as some event (or group of events) with a stable temporalspatial distribution which irroversibly alters the probability of an error in the disposition of G-group thromosornal material during metosis or in the young 2ygote. It is speculated that if meiosis can be shown to become less precise with advancing age, as shown for mitosis, the search for cause of Down's syndrome may be furthered on physiologic or environmental factors likely to have a direct effect on rectoses 6 tables, 21 references, Appendix, with equations, (AEd)

626. STEVENSON, A.C., JOHNSTON, H.A., STEWART, M.I.P. Congenital mulformations. A report of a study of series of constcutive biths in 24 countries, *Bull WHO* 34. Suppl. 9-127, 66

A marry, 1958-1964, of congenital mulformatron, 24 conters in 16 constitution and contents along 42 (27.81) regularises, inciscione of mulformatrons use 12.7 pcc 1,000 hospital bettis, fast causes of death and up to 6 mulformatrons were present on the content of the content o

627. STROLLER, A., COLLMANN, R. D. Area relationship botwoon incidences of infectious hepatitis and of the births of children with Down's syndiomic state months later.

J Ment Defic Res 10:84-8, Jun 66.

A highly appolicant and consistent area difference in the incidence of infectious hematitis for the eastern and western divisions of metropolitan Melbourne, 1953/4 to 1956/7, law been demonstrated. For each of these years, there was a tendency for annual incidences of Down's syndrome to follow the patturn of infectious benefitis in being greater in the cost than in the west, but differences for the former only reacted statistical significance (P < 0.01) in the year 1956, the peak year for the incldence of both. However, the difference for the overall 4year neried was significant (P < 0.01) for both discuses. As a by-product of this sendy, the leverse correlation betucen the userial incidence of infectious hepatitis and population density has been confirmed, and it is postulated that this relates to poorer sanitation which could be involved in the etiology of Down's wadrome. I table. 6 references.

628. STOLLER, A., COLLMANN, R. D. Patterns of occurrence of beths in Victoria, Australia, producing Down's syndroses (conquistss) and conquestral anomalies of the central nervous system: A 21-year prosective and potrossective surrey.

Med J Aurt 1:1-4, 2 Jan 65. Study of the occurrence of mongolism, hydrocentuly sums bifids, and asenerphaly has produced a predicted pattern of concordant peaking for mongolism and hydrocophaly, and a continuance of the patterns for the other attempties. The incidence rates obtained by these surveys are: (1) mongolism, 1.45 per 1,000 live births (State of Victoria, 1942-1957), (2) anonceptaly, live and stillbirths, 0.72 per 1,000 total births (three large Melbourne maternity hospitals, 1942-1962), (3) spins biffida, 0.59 (determined as for anticophaly), (4) hydrorephaly, 0.65 (determined as for anencophaly). The evidence for an infective effology in a high proportion of cases of mongolism and hydrocephaly is presented. Suggestion are given for biological investigation of the hypothesis that mongolism, hydrocephaly, and perhaps other congenital anomalies are due to interaction between virus sted aging ovum at or around the time of conception. 1 table. 2 figures, references, (AEd)

- THOMPSON, J. F., HARVEY, V. K., JR. The "German Measles" enrelence in Indiana. Antes J Obstel Ganes 95:55-60. 1 May 66.
- Of the 0.38% of wamen delivered in Indiana in 1964 who had robella, 1.9% had deformed infants. I table 3 figures. (Fd)
- WALLACE, H. M., FISHER, S. T. Use of consenital malformation data reported on live
- buth certificates. Pub Health Rep 81 631-8, Jul 66. A questionnaire survey in the U.S. in 1965 vielded the
  - following results: 80% of the areas queried ask about the prevence of congenital mulformation on the live birth certificate. A majority also request information about the twee of mulformation. This information is used by 31% of the areas for opidemiologic surveillance, by 45% for statistical mulysis, and by 64% for followup services Considerable variation was noted in the type of personnel performing the reviews and analyses and in the entena for selection of infants for following service. A similar survey to 1953 showed strikingly shader notteens reparding the number of areas which did not report the reporting of congenital mulformations on their live birth certificates and the use of information for followup services. Superstions for improving the completeness and accuracy of reporting congenital malformations on birth certificates are seviewed. 4 tables. 14 references. (AEd)
- WIDOK, H., WIDOK, K. Consental abnormalities and the number of previous pregnancies. Med Klhr 59: 1198-201, 24 Jul 64 (GER)
  - No English summary.

- 632. WULF, R., GIBSON, T. C., MEYER, R. J. Consental abnormalities in a Vermont county. Detection and medical care. New Eng J Med 274 861-8, 21 Apr 66.
  - A retrospective study in Chittenden County, Vennont. The incidence of congenital mulformations was 152.1 per 1,000 live births (based on 1,813 births in 1952). Information for 89% of all births came from multiple screening, questionnaires to parents, review of bosmial records, death certificates, and agencies for handicapped children. Are of infant when defect was discovered and distribution by extent of care required are discussed. The
- early discovery of consensed defects in this study was accomplished less frequently than in many proyective studies as which screening was likely to be more commohensere and less representative of scality. The only method of senorowise early medical core for children handscanted by construital defects is by signal observation of families over long periods by trained personnel 7 tables, 39 references, (AEd) 633. ZYTKIESICZ, A., BOKINIEC, M., CZARKOWSKA, D.
  - Statistical analysis of fetal malformations with special consideration of some causes. Pol Tvy Lek 20:1420-2, 20 Sep 65. (POL) Amora 18.573 live births during 10 years in the Medical
    - Academy, Lublin, 617 cases of fetal mulformation were observed, 3% of the total births. The malformations were auxiveed with remaid to environmental factors are of mother, parity, and the frequency and extent of malfor mations, 2 tables. 3 figures. 6 references. (Ed)

#### E INFANT MORTALITY

#### 414 ANONYMOUS Continued interesement in infant mortality and stillbirth

rates

### J Roy Inst Public Health 29:49, Mar-Apr 66.

Previsional figures for the first quarter of 1966 squared a real check in the rising both rate for England and Wales. also infant mortality and stillbirth rates have continued to fall to new low levels. Provisional numbers and rates. of live boths, stillburths, and deaths at under 1 year of age are compared with 1956, 1964, 1965 first quarter data I table. (AEd)

#### 635 ANONYMOUS.

Doctaration by the health ministry on obliquedry registration of live and stillborn fetures, death of an infant up to 7 days of age and death of the mother (24 Nev 1964). Cest. Pealar 20:67-70, Jan 65. (CZ)

No English summary.

#### 636. ANONYMOUS Decline in infant and child mortality.

19710 Chron 19.112-5, Mar 65 Analysis of infant and child mortality in 21 countries 1951-55, and 1961. 28% of infant deaths were due to "other diseases peculiar to infancy and larmotunity appealified" (including hemolytic, hemorrham diseases. switnitional maladjustment, etc.); 22% were due to birth minnes and postment asphysic and atelectous, 9% were due to infectious resonatory diseases (influenza, priormores and broachitis) Compansons are unde among countries and age of the infant at death, 3 tables. (AEd)

# No English summary

637 ANGNYMOUS. General information on maternal and infant mortality Bull lust Nat Sante 21:919-28, Sep-Oct 66, (FR)

### ANONYMOUS.

Infant mortality in the United States and abroad. Statist Bull Metrop Life Insw Co 48: 2-6, May 67.

A rate of 23.4 infant deaths per 1,000 live births in 1966 is an all time low for the U.S. but not the lowest compared with other nations. The hydrest rate (1963-64) among the states was Mississippi, followed by Dietrict of Columbia, Reduction is white infant mortality is recorded in many states but reduction in nonwhite infant mortality occurred only so the West where the non-white population is breely Indies. Of the resign course of infant mortality, immaturity showed the largest decrease followed by birth muries and consenital mulformations. Abroad, the Scandingvian countries, the Netherlands. Finland, and New Zasland report low infant mortality rates. Chart. 1 reference. (Ed)

### 639. ANONYMOUS.

Perinatal mortality docreasing, Statist Bull Metrop Life Insur Co., 46 S-8, May 65

Most of the reduction in permutal stortality among white baloos, and almost the entire decrees among norwhites, it attributable to the downward trend in fold mortality, probably reflecting the effect of innerwed presental and obstetucal care. A large proportion of curbs reconstal deaths occur among babses werdeng 5½ pounds or less at birth, and further reduction in permatal mortality hinges to a large extent on advances in methods of controlling premature labor. Research as needed on relation of maternal infections in premiure to congenital defects of infants and on possible effects of the newer drugs taken in today pregnancy. 2 tables. (Ed)

#### 640. ANONYMOUS. Reducing infant montality: Suggested approaches.

JAMA 193 310-9, 26 Jul 65. The report describes seem! factors in obstetries, sectablelogical relationships, age-parity patterns, sociocconomic status, maternal health factors, illegathency, prenatal care influences as they relate to infant mortality, and points out the need for identification of high risk patients and for high level care to be given them, Ways of combatting prematurity, the first making cause of accountal deaths, are mentioned. Recommendations are given for evaluating an infant's viatus at birth and for collecting biological and demographic data to indicate where improved archeiques can be applied. Present day standards for pernatal care are discussed, and identification is made of sweas where further research is needed. A list of general recommendations for primary and secondary presention is appended. I table, 3 figures, 42 references, (Ed)

#### 641 ANONYMOUS

The effects of labour on the factus and the newborn. 97/O Chion 19.184-90, May 65

The most common cause of death in believ born at or around full term, according to a survey of permutal mortality in the United Kingdom, is intraportum anoxid. The greatest opportunity for reducing permutal mortality further, lies in tacking this problem along with that of occeptal and other traums duner birth. The report discusses conditions in which intrapartum snovin and traums occur. It describes the role of the placents, the stress of labor upon the infant, abnormal programcy and labor, testing for normalcy of the infant at birth. metabolic reserves, oxygon consumption and the thorntal environment, and hazards to the newborn. (Ed)

#### 642 ABERNATHY, J. R., GREENBERG, B. G., DON-MELLY, J. F Application of discriminant functions in perimeal death

and survival Amer J Obstet Grace 95:860-7, 15 Jul. 66.

Three functions were used to determine the most effective in discriminating between death and survival of an infant. Model A, containing 28 variables, was the most effective; Model B, containing only birth weight, gestation, and crown-heel length was almost as powerful;

Model C. containing the 25 versibles of Model A not meluded at Model B, was the loast effective Further analysis of Model B revealed that both weight was the most powerful and gestation the next most powerful. Berth weight plane was a better discriminator than sestation and length combined. Other variables found veraficunt in discrimination metaled race, sex, nec-necenancy weight of the mother, obstetne complications, placette and cord conditions, and congenital malformstions 2 tables, 2 (ignites 11 references, (AEd)

#### 643 ANDERSON, U. M., HUNSS, R., MOSHER, W. C. High-risk groups -definition and identification New Eur J Med 273 308-13, 5 Aut 65,

A woneraphical "core" area of high trik was identified by analysis of sections of the city of Buffulo according to \$ statistical items (mortulary of infants, ormental death rate, prematurity, pregumey complications, high both rate) identification was confined by me of other wheeled data. Then, by itempring the stone characteristics for each wird in the core area, the existence of subgroups v. thin it was demonstrated. These subgroups are characterized by racini, social, cultional, educational, and others differences, as well as differences in morbidity and mortality, 8 tables, 1 map 10 references, (Ed)

#### 644 ANTELL, G. J. The periodial mortality problem in Florida, A possible

solution.

J Florida Med Ass 54 231-7, Mar 67. Florida's accounted mortality rate has been considerally luther than the average for the U.S. over 15 years. The reason is the high nemental mortality rate (PNMR) of the nonwhite agos within the state. Maps are presented depleting the PNMR in the various country. The Maternaty and Infant Care Project, authorized by the Congress in 1963, offers hope to "legts sest" induged program women and their offering, Of 16 countries. hourever, with nonwhite PNMR'S kitcher than 60, only 2 are included in these grants so for, Under Title V of the Social Security Act and Title XIX of the Medicare Law. additional federal funds are available for medical and to indigent maternal and infinit nations, 6 finares Maps. (AEd)

#### 645. ARMSTRONG, A. Infant mortulity-some possible determinants. Canad J Public II edith 57:263-8, Jun 66.

A relationship might exist between hilms mortality. proome, and health services. To test this hypothesis, a turve was fitted to data for 40 equatries, and an equation relating the infinit mortality rate to ner cannot GNP and the ratio of bounted beds per 10,000 peopulation was derived. The repression analysis demonstrates an existing association which suggests circumstances reflocted by income and the supply of hospital bods as determinants of the infant mortality rate. 3 tables. 3

#### 646. BACKER, J. E., AAGENAES, O. Infant mortality problems in Norway

roferences. (AEd)

Vital and Health Statutics, Series 3, No. 8, 67.

Statistics on changes in infinit and perinatal mortality rates in Norway sence 1900. Analysis focuses on the sizable decreases in the late seconatal (7-27 days) and postneonatal (28 day-11 months) mortality rates, and the considerably smaller decrease in normatal (stillburths and under 7 days) mortality rate. Changes to parameters of infant low and their influence on infant and permutal mortality trends are discussed. Hortality among high-risk mfants is annivzed. The population found, societonomic situation, provisions for maternal and child welfare, medical care of infants, and vital statistics system are described Immetarity is at present the beggest problem in connection with perinatal and late acoustal mortality in Norway, and any future declare of any importance will depend on prevention and control of this condition, 15 tables (AA)

#### 760 BANIK, N. D., KRISHNA, R., MANE, S. I. Longstudinal study of morbidity and mortility nation of children in Delhi during the first two years of life: A

review of 1,000 children Indian J Ned Rev 55:504-12, May 67

#### 647. BENTLEY, II P. JR. Necestal mortality J Mai Ast Alphone 36:377-81. Oct 66.

Alaboma has the second highest neoughal mortality in the U.S. Discussion is concorned with the primary problems associated with neopatal mortality and delinite and proposed progressive steps the physicians of the State singlet take, 4 tubles, (Alid)

#### 648. BONITAN, D. G. Perinatal mertality. Aust New Zeel J Obstct Genges 5,183-5, Aug 65.

Permutal sportulity in England and Wales is studied from various viewpoints such us. type of mother (physical programmented), place of confinement, and length of gostation, past reproductive performances, time of stillbirths and neonatal deaths. Asphyxu or hypoxis in labor is found to be an important cause of douth. 3 references. (hd)

#### 314 BRANOWITZER, Z. Dynamics of vital statistics in the population of Poland and in certain European countries in 1950-1960. Zdrow Publicase 4:467-77, Apr 67 (POL)

649 BRAZOZOWSKA, L Analysis of perinatal mortality to hospitals and matermity words as well as under the supergroup of nonland urban midwives in 1961-1964, (according to data from 17 regions and 5 sengrate cities). Zelrow Publicane 6 353-63, Jun 66, (POL)

Porinated mortality, 1961-64, doctrased in hospitals and omnee other women delivered by midwiss but no among rural women delivered by miduives, important causes of mortality are low birth weight (1,001-2,500 gms.), developmental defects, complications of the placents and umbilical cord, and labor traums. Prevention of presenture labor or early hospitalization of women suspected of premature labor is needed to reduce mortality, 9 tables. (AEd)

#### BUTLER, N. R. Causes and presention of permutal mortality. WIO Chron 21 43-61, Feb 67.

The article discusses the multiple cursues of general mornitally imagination sephyria, inacertable effects, lethal congenital multicramination, exceletal benth trauma and prematurity, and infection and finests menagatical hilly. Also discussed are factors attherance permitted that the discussion of the factors attherance permitted and educated legs, where taintees, marries as well as wifen-result differences. In a important to study nexborare that worrew with a permitted disability, a perceptivate to the reduction of permetal mortality is to lething the obstitute and weedlegged resocution of the contraction of the confection of the confection of the mental processing and the confection of the confection of the confection and weedlegged resocution of the

### 651. CHASE IL C

International companion of permutal and infant mortality: The United States and six western European countries

Visel and Health Statistics, Series 3, No. 6, 67.
Pennatal and infinit mortality in the U.S. is compared

with that in Denment, England and Wake, the Nettenden, Norway, Scutland, and Swelea. In 1964, the Infant mortality zate for the U.S. was highest among the Infant mortality zate for the U.S. was highest among the 750 higher than the lowest, Sweden. When the comparison was limited to white Infants in the U.S., the rate was \$252 higher than for Sweden. Clearly, the higher rate in this country cannot be attributed satisfyed for according the flants. The Tables (AED)

### 652. CHASE, H. C. The current status of fetal death registration in the

The current status of fetal death registration in the United States.

Ames J Public Health 56:1734-44, Oct. 66,

Limitations of foral death data are discussed and possible

ingrovescots in registration undiented, Imparading reffector of standard cuefficients were such thraggs purious registration. Colmisched with these revisions, all starcy will be redeving betti risks and feel death start of the residency of the residency of the restread each residency research unusual opportunities to press for improve registration on all freests. The decade shead offers an apportunity to improve feel death registrations to that it can take it price with into battle and death registrations are a source of data. For own references, (AGE) and the residency of the residency references.

### 653. CHENOWETH, A. D.

Perinstal mortality in the United States

J Anner Gestoppeth Ass 64:372-80, Dec 64, Statelics, and commune on resolut rechning to infant mortality. Reproductive faither (including, normala), partmala, and attentional deadler makes among the top ten causes of clerit in the U.S. in 1961, nine countries lead weight contributes to high periatrial mortality some than any other single condition. There is a close relationship between thirth weight and coolal and countrictionship texture in the weight of the contraction of the control of the contraction of the con-the contraction of the con-the con-traction of the con-traction of the con-traction of the contraction of the contraction of the con-traction of the contraction of the con-traction of the contra

#### COMSTOCK, G. W., LUNDIN, F. E.; JR. Parental snoking and periantal mortality. *Ames J Obster Genec* 98 708-18, 1 Jul 67.

All pennatal deaths and a sample of live births over 10 years in Wishington County, Maryland, were matched against the records of a special census taken in 1963. Epidemiologic characteristics and permatal mortality rates were compared for mothers by smoking history during prognancy. Infants of nonsmoking mothers were approximately 200g heavier at both than infants of spoking mothers. The amount smoked by the mother was inversely correlated with birth weight Stillberth rates were similar for nonsmoking and smoking mothers Maternal smoking was associated with increased risk of accountal mortality and early childhood mortality only where the father was poorly educated. It was concluded that maternal smoking was related to mortality of the child by means of a common association with some other factor, possibly something related to adomacy of prenatal care and environment. 9 tables, 17 references. (AEd)

#### 655. COOKSON, I.

Permetal mornality, the survey and the general practitioner.

J Colf Gen Pract 8:205-22, Sen 64

The evidence provided by the British Perinatal Mortality Surveys confirms that mature and premature births agest be assessed separately. Premature labor is the principal abnormality associated with permutal mortality. Mature cases delivered within two weeks of term are a low-risk group in which the effects of purity less than four, ago less than 35 years, social class, and bloeding before the 28th week of prognancy are so small that they can be disregarded. The permutal mortality rate for deliveries at home or in general practitioner units is low but might be further reduced by specialist supervision for more cases of premature labor, breech presentation, severe anemia and "small for dates" babes. Postponement of forceps delivery until fetal distress is evident should be avoided and local anosthesis should be used more frequently in peneral practice obstetrics, 18 figures References. (AEd)

# CURRAN, E. W. Report of the international conference on the perinatal and infant mortality problem of the United States.

Vital and Intenth Statestra. Series 4, No. 3, Jun 66. Maylor Intelliga of thosis presented at the confreence by facetypates from Demune, England and Mides, the facetypates from Demune, England and Mides, the control of the confreence of the confreence of the confreence only during the past 30 years, Howaver, in the 1850-1850 per series of the confreence of the confreen FC DONARIDIAN, A., ROSENPELD, L. S., SOUTHERN,

e st. Infant mortality and speroeconomic status in a metrorodian community Pub Hoth Rep 80 1083-94, Dec 65.

Linding, obtained from a study made in 90 consistrates of Mytropolitan Boston, using 1950 consus data, showed 4 5-fold difference in permatal mortality between const. track with the lighest and the lowest socioeconomic status, and a sharp geographic localization of men of highest murtality in tracts with highest mortality. component segments of infant mortality were meportionately related to one another in a pattern similar to that in partially developed countries today and in the U.S. sectal decades ago. All segments of mortality discreased as someconomic status improved (except for an even level for infants under 1 week old). Misclassification of stillbirths is the least likely explanation and the deferral of perinatal deaths among high socioeconomic

groups the most hiely explanation of the findings S

tables 37 references, 5 figures. (AEd) 658. DONALDSON, R. S., KOHL, S. G. Perious I mortality in twens by sex.

Amer J Public Health \$5:1411-8, Sep 65. Birth and mortality data indicate that from the moment of conception, the mule is at a physical disadvantage compared with the female. The present study analyzes perinated mortality by sex, using twin gestations in which the two infants were of different sex, All are husnital date. fach "outcome" was: (a) discharged alive, (b) a fetal death, or (c) a neonatal death (i.e. born alive last dying before 28 days of age). This study and a classification prepared of all legitimate twin births for England and Wake in 1949-1950 give the same result for unlike sex, unlike outcome sets of twins. The male suffers a higher neonatal death rate but is not subjected to a higher fetal death rate than his female companion in

the same programmy. 9 tables. 9 references. (AEd)

659 DOUGLAS C. A Infant and parimatal mortality in Scotland.

Vital and Health Statistics, Series 3, No. 5, 66. Statistics on mortality associated with birth in Scotland with couplissis on decreases in muternal and infant mortality unce 1930 and in stillbirth mortality since 1939. Improvement in infant mortality was chiefly in the postneonatal period; little change has been observed in the first day of life. The greatest progress has been in the reduction in mortality due to communicable diseases. Prematurity is now 1/8 the rate in 1931-35. Stillburths and mortality due to congenital malforms tions, birth injury or aspliyale have shown no improvement since 1931-35. Declines in mortality have been greater for the higher social classes. Mortality from respiratory and digestive diseases is relatively rate at children of more prosperous or better educated famiics, 13 tables, (AEd)

660. EMERY, L. L. Lyidence from bone growth that most of the infants dying to the accountal period had been ill before birth. Acta Paediot Scand Suppl 172 55-9, 67.

> A survey of partern of erportly as revealed by structure of the costochondial junction, suggests that the great stajority of infants dying in the noonatal period had intrasterine disease antedation labor. This involves anproximately 60% of presenture both deaths and ground 75% of permand deaths at term. I table, 2 figures, 9 references, (AA)

661. ENKE, IL, WERNER, K. On the effect of socioeconomic structure on infant

mortality. Z Get Hyg 10.472-82, Jul 64, (CER)

Districts in Gennany were described exurben or rural on the basis of proportion employed in sericulture, density of the population, and living style. No correlation was found between degree of urbanization and the lefast mortality rate. 5 tables, 5 figures, 6 references. (AEd)

662. ERHARDT, C. L., JOSHI, G. B., NELSON, F. G. Influence of weight and postation on perinatal and noons (all mortality by officials group Amer J Public Health 54: 1841-55, Nov 64.

of the newborn (23%), malformations (25), and up known causes (113). Recommendations are given for finding solutions for factors and causes of permatal mortality. 19 tables 1 figure 21 references. (AFd)

664. FAIRWEATHER, D. V., RUSSELL, J. K., ANDERSON,

Permatal mortality in Newcastle upon Type 1960-62, Lowert 1, 140-2, 15 Jun 66

Permotal mortality material for the fast 3 years of the Newcastle City maternity survey is presented under nathological and elimentuthological headings to indicate the general pattern of findings. Reference is made to the group of cases for which no satisfactory explanation of tause of death is evident (18% of the total). 3 tables: 3 references. (AA)

#### 665. FELDSTEIN, M. S.

A method of evaluating perinatal mortality risk. Brit J Prev Soc Med 19:135-9, Jul 65.

Report on the development of a multiple regression method for evaluating nemetal mortality risks and identifying cases most likely to benefit from intensive antenatal care or hospital delivery. Data were collected by the Permutal Mortality Study (Great Bostain), for 16,994 single births, some 98% of all burths during one work in March 1958. Perinatal deaths of bubes born during March-May were also recorded, Certain types of permatal deaths are more likely than others to be presented by hospital delivery, e.g. contrast intrapartum asphyxia and congental melformation. Similarly, better antenntal care rather than more hospital booking is appropriate for cases with high risk of nateparture death Specific models will be developed to assess the risk of permatal mortality at different stages and from various causes. The doctor will be able to plan a parkent's core on the basis of a set of risk values. If possible, this will be supplemented by measures of the extent to which risk is decreased by hospital delivery. 3 tables 7 sefercuces (Ed)

#### 666. FORFAR, J. O. Prospect and practice in child health

Laucer 1 615-9, 20 Mar 65. Although over the rust 3 decades the infant moutality rate in Scotland has fallen significantly-from 86 ner 1,000 live births in 1932 to 26 at 1963-the figures cannot be viewed with complacency. Scotland is only tenth among the 22 countries whose rates are compared for 1962. Accounting for childhood deaths are: neonatol subiyya, rematurity and both mury, 37%, consental absormalities, 19%, infections, 21%; accidents, 12%; mahguant recoplasms, 3%; neurological disorders, 3%; anomias, 2%, other causes, 3%. Every day as Scotland about 10 children die, 317 are admitted to hospitals, 667 attend houstal outputions departments, and 11,450 are seen by their general practitioners. I table. 13 fugures. References. (AEd)

667. FUJIKURA, T., FROEIILICII, L. A. The laftuence of race and other factors on pulmonery hyaline membranes. A report from the collaborative

study of cerebral policy. Amer J Obstat Grise: \$5:572-8, 15 Jun 66.

Polimonary sections of 434 neonatal deaths out of 27,407 single live births showed hypline membranes

(HM). The incidence of HM was higher in Negroes than whites. Over 80% of the HMs occurred in infants of birth weight under 2,500 pms. These deaths occurred within 24 hours of birth 11M groups of white infants survived longer than Negro infants. The racial difference in HM incidence and mortality is related to birth weight. More Negro than white infants weighed under 2,500 gms at buth and heavier meants with HM survive longer than lighter infants. Paeumonia was seen in 33 of the HM cases. HM cases with pulmonary edema were evenly distributed between those slight and those with moderate and marked membranes, 6 tables, 9 referenous. (Ed)

#### 668. FURUSIIO, T. Relationship of stature to infertility, infrastringer and fetal deaths. A pecliminary report Jap J Hum Genet 9:100-9, Jun 64: (JAP)

Relationship between stature of 533 couples who had collabitated for more than 5-10 years and incidence of sterdity as well as of miscorriage analyzed from data from a village in Japan. No statistically satisficant differences were observed between stature and rates of sterlisty or incidence of apontaneous abortloss or stillbirths Significantly related to incidence of miscarrage were wife's ago at dollivery, and differences in the couples' ages. The relationship between stature and socioconomic status was considered. 8 tables. 11

#### 669. GAROT, L. The principal causes of perinatal mortality Bull Soc Ray Belg Gyner Obstet 36:265-80, 66

references. (Ed)

A study was made of 500 cases of permutal deaths. Immediate causes of druth in order of frequency were anoxia, malformations, infection, sterine traums, 190immunication, and hysline membrane disorders. Secondary causes were environmental conditions affecting prematurities In 5%, general sanitation, madequate prenatal care, and unsatisfactory obstetue care were to blante. In more than 10%, socooconomic factors intervened. Of 100 deaths, 12 were certainly and 47 probably avoldable. (AEd)

#### 670. GENZ, N. Directed comparge against infent mortality during the 1st week of tife. Gelwrith Francohellk 24:882-9, Oct 64, (GER)

In 1961, 20,344 infants died in the fast week of life in the l'ederal Republic of Germany and West Berlin. representing 2/3 of all infant mortality. This negactal mortality has not been substantially reduced over the list 50 years. Clinical and post mortem diagnoses of 326 cases from West Beilin were studied. Neoroncy renovaare seen as the only useful source of information for the study of neomital mortality. Suggestions are made for the establishment of regional committees to regularly review reconstal deaths 2 tables, 1 flaure, 12 references. (AEd)

#### 671. GIBBS, C. E., MISENHIMER, H. R. Perinatal mortality review. Texas J Med 61:39-43, Jan 65.

Presentation of 5-year perinatal mortality statistics and relevant discussions from conferences on permatal morbidity and mortality held at Lackland Air Force Base. Texas, bimonthly, 1958-1962. Discussions were designed to establish cause of death, correctors faciors, and preventibility of death Arrate medifies tabulations of causes of death, letal weights, occurates institutal diseases, and contributing firsters in preventible deaths. The untires consider death, as improvement occurs in the care and menagement of the entireliable confidence, the construction of the contribution of the below I figure. References (All Texts)

#### 672 GITTELSOHN, A. M., MILIIAM, S., JR. Observations on twinning in New York State. Brit J Prev Soc Med 19 8-17, Jan 65.

Burth records of 21,128 two part, born 195460 in upriate New York, are analyzed Princial amentality of monorypotic venus is greater than that of degrees the part of the best fire both venight is with an innouncement part of the best fire both venight is with an 2500 g. report of the best fire both venight is with an 2500 g. refor both sength geneter than 2500 g. respit both hore better pervisoring than textue little weight diagnative between secondary of the part of figures. References (AEA)

#### 673. GOLD, E. M

Observation on abortion.

Novid Med J 13 76-8, May-Jun 66.

Stations are studied for 'finengeature absortion in Newyork (City, 1943-1962. The successing importance of crimmal aboutton as a cause of postpream discretificposture absortion. The intendence of flowerposts in bother posture absortion. The intendence of flowerposts in bother related to ethnic group and coconomic curventations, in these has been growing public precurer in the U.S. to define the parties of the contract of the contrac

#### GOLD, E. M., FRHARDT, C. L., JACOBZINER, II Therapeutic abortions in New York City. A 20-year

Amer J Public Health \$5:964-72, Jul 65

Although meidence of thempentic abertions, New York City, 1943-1962, exhibits a downward trend, there is a high not of abortion dealths among nonwhete and Purcho Rican women. It is singed that health departments examine such problems and take appropriate action. 9 tables 11 references, 146-196.

# GROUNDS, J. G. Child mortility under six years of age in government hospitals in Kenya. E Afr Med J 41.473-94, Oct 64.

An analyze of causes of death of delibrar grouped is concentral, infant, and delib the progression floorists in each main region of Kenya, it was contribled that the concentral contribution of the contribut

# 676 GROUNDS, J. G. Muttality and wastage rates for African children in Kenya. P. Afrikol J 41 333-43 Int 64

common or ment mortality puring Mrines children in Kerge Cambridge seather service and the time of these service, reflexing socie-incline-common differences of the possible and the time of development of faulth services in the service and the time of the reflexing services and the time of the reflexing services and the service of the possible and the services are the services and the possible and the services are the services and the possible and the services are have serviced as the services are the services and the services are the services a

### 677. GROUNDS, J. G. Moriality of children under my years old in Kenya with

selectorice to contributory causes, especially maleutration.

J Trop Med Hug 67 257-9, Oct 64.

Prisonry causes of death of 243 children under age 6 in

15 bosputale in Kernyn during I morth ur 1963 are liked in order of magnetance. 47% of all chaldres who died were uffereng fram mahututuno at the tame of admases to loopstate for other terminal labers. There is a close succession herivacen dustle from gastroetestrias and maltutation. Multiple pathology is common 250 of all the children discl. on their first year and 34% in their first 2 years of line. 2 caubles: Referensess. (AFA)

#### GURALNICK, L., WINTER, E. D. A note on cohort infant mortality sates Pub Health Rep 80.6924, Aug 65.

The infant mortality rate is the number of deaths under I year in a given paned divided by the number of live haths in the same neucd per 1,000 or per 100,000 live burths. But some deaths under 1 year in any interval are of babies been in an earlier period who are not represented in the denominator, To provide a better measure of the risk of death of infants, a number of adjustments have been decord. Allocation of each death to the carrect cohort of births requires knowledge of the month of birth for each child, information not generally tabulated for the U.S. Rates for the cohort of births in the U.S. for early month, 1940-1961, am shown. The high proportion of deaths under 28 days explains the close semilarity between the annual cohort rates and the adjusted rates. Cohort rates do not replace calendar infant mortality rates but serve us an additional method of analyzing infant mortality, 2 tables, 4 references. (AEd)

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Matterial decased from published U.S. vital staticties and census data for the purpose of studying interaction between environmental and busingsal groups of factors influencing mortality during the continuum of faul and safant like. Mortality at ages where busingsal factors are snore important will be characterized by geodes sex differences and lear moid offerences, smaller variability, weaks: correlates with the level of Iring, and and Iring, and and Iring, and

#### 680. HAMMOUD, C. I. Studes in fetal and infant mortality. II. Differentials in

mortality by sex and race

Asser J Pub Health 55 1152-63, Aug 65

An attempt is made to explain the differences in fetal

and affasti douth by as wast are. High infant inectainly as unally accompanied by wardin sed differences and large age of differences. As environment amproves, we difference the consequence of the difference by most dominist. The contract increase unlike the differences by rance the contract of the same as those underlying differences by rance, the difference is mostably by we almost probably the most probably beautiful and the same as those underlying differences by rance probably removements. If all ones not agone has underprobably removements, and one not agone has underprobably removements, and one not agone has dependent of the same as the same probably removements and difference between the seaton. 9 dabbs. I figure 20 references, (Adv.)

#### 681 HARLEY, J. M. Listertul hypertension complexiting programmy: Pactors affecting the fotal mortality. Proc Ray Soc. 14ed 59, 835-8, Sep. 66

As investigation into the offect of various factors on fractions in mortally in practical whose pregionness were complicated by essential hypercassin Using 3 series of such patients, the offect of jags, notice, intuit distrible present, and previous obstitute history were somideted, Delahod comparisons are desembed, but no eluar decision reached. Juliable 10 feeterness. (APd)

#### 682. HART, P. G. Permatel mortality of twins. Nedel T Verlock 67, 1-25, Feb 67 (DUT)

218 women delivered twent an dae Utracha Utwentry Cries, Rellana, 1949-1956. Nettendal morrathy was 115% and morrishly of the verond usin was comundated by higher than that of the first. Permantity, difficultion of the second parts, stretched delivery and control of the present of parts, stretched delivery and control of the patterns, third circulation, etc.) are the root important fractors in these deaths. The interval between the british of the first child and the The interval between the british of the first child and the order of the second child. I have been supported to the control of the second child. I have been supported to the forestero. A EAD of the second child. I have been supported to the forestero. A EAD of the second child. I have been supported to the control of the second child.

### HARTMAN, E. E., SAYLES, E. B. Some reflectaces on births and infant deaths among the low subdecessioned groups. Allow Med 48: 211.9. True CS

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Data were collected and analyzed from 1960 consus tract
material and from high and infant death reconds for

statematy patients at Mannespolis General Hospital in 1962. Crows tracts with lew sentencementic conditions, generally had a high neidence of premiumity and infaniliation, and of restly 1875. In the control of the co

# 684. HEINS, H. C., JR. Permatal mortality in Charleston, South Carolina. J S Carolina Med Aux 62:181-7, May 66.

Primatel deaths for a second consecutive 5-year period were studied in Chardson locustic Caness of periodic next studied in Chardson locustic Caness of periodic mortality mod to be adentified because they most hop be the caness of congenital fundament, an inflant who also not day. Periantal and maternal mortality rates see much higher in indigent patients. A relabelism in perinatal new lather consecutive that the contract of the material patients and the contract of the contract which the periodic periodic periodic should be performed whenever possible in cases of periodic periodic lath. 20 blook, 14 inference, (Alcil)

#### HOBBS, M. S., ACHESON, F. D. Pennatal mortality and the organization of obstetue services in the Oxford area as 1962. Bit Med J 5486:499-305, 26 Feb 66.

Permutal mortality for 5,893 simile bloths in Oxford. 1962, is studied in relation to local organization of materiaty wroces, 48% of the mothers had been booked for consultant cure, 51% for one under general practitioners either at home or in Cil' maternaty units, and a bittle under 1% had not been booked for any type of one, \$7% of the highest risk group 1, \$8% of the medium risk group II, and 37% of the remainder had been booked for ossisultant care. For risk groups I and III, the permatal mortality rate was higher in consultant than in GP booked cases, a summon which at least in part reflects selection of difficult cases for consultant care within these groups. Factors affecting the proportion of mothers booked for consultant care by risk proup and availability of GP versus consultant units are decussed. 6 tables. 4 figures. 6 references. (Od)

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The Perinatel Mortality Survey of Great British, 1958, decreasation the posteron of inflatments, with a vasid always begin, pelaying, age, parity, and region of residence of a mutcher on the outerware of propagancy. If the class of the control of

### JAYANT, K. Birth weight and survival: A hospital survey repeated after 15 years. Am Hum Gener 29: 367-75, May 66.

 JESPERSUN, C. S., LITTAUT, R. J., SAGILD, U. Mensles in pregnancy is a carrier of stablishin and multiormations: A restrospective study in Georgiana. Uses I Logy 128, 1076-80, 15 Sep 66. (DAN)

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the light lifey throw on social consonance. An invocal tion from Financiark

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688. KINCAID, J.C. Social pathology of footal and infant love. Not Med J 5441:1057-60, 17 Apr 65

Social data difference in Broth's URBARL and uffinite monthly rate have those with to so holsewy to constitute rate have those to the one belowy to constitute rate have been as the constitute of the constitute

#### KLAUBER, M. R., JACKSON, E. W. Leukemin and neonatal death rates. Lawert 1 1002-3, 6 May 67.

Data suggest a positive association between lunchman (at uppe 0.4 years) and monated fundering 23 days) death exists of the hospital of flexib. In Chilfornam, hospitals with the occupital of flexib, in Chilfornam, hospitals with the exception of maternal age, characteristics showing high inconstant mortality are oppositive to show are solected by high childhood feathership takes, on a positive exocultion below. It is not to be a second to the constant mortal or below. The state of the childhood feathership takes in the positive are not positive as the child of the child of the childhood childhood the childhood that the childhood the childhood that the

 KLEIN, J. Perinatal mortality in twin pergramey. Obstet Greec 23:738-44. May 64.

Analysis of 523 sets of prints to ascertain which factors may infrasce the high perinal ascertainty ascelands are printed to the high perinal ascertainty ascelands. In the perinal perinal perinal of the bein feine. In the persone of competent obstatele supervision and judgmonts, factors such as personations, such and of defivery, and time interval between delivery of first and forecast. Alcohol of fittle consequence, 14 tables, Refreence, Labols.  KOZACZENKO, J Pomostal mortality of infants born to olderly protoporas. Ginek Pol 37:639-43. Jun 66 (POL)

7,417 debredes, 1938-1952, were standed with complexity on pointent monthly for "debrede"; plensinguis copy 20 june of aga). Perinnti mortality are victore as high in emplainment somes. The high rate was tunning 40 to stillightly and moment deaths in germatine debreties. The proportion of stillightly on varioble monested was markedly higher in "debrety" priminguists them in younger ones. 3 highly 4: effertnesse, 6,414.

692 KRYSZTOFOWCZ, I., LENC-KRUMITOLZ, A. Exstantion of infant mortality in Poland in 1964 Sante Publique (Butur) 9 353-8, 66.

> Dreing the lost 15 years, islant mortality in Poland has descreased by over 40%. Contiliuming to the descrease were declares in stillbirths, ourly recental survivily, and subtant mortality during dairway. Or 25,000 declares, one firmed by a physician, 110,000 were diagnosed as consider by diseases of missey, 4,000 by penemonis, and 2,000 by diseases of missey, 4,000 by penemonis, and 2,000 displaced in the observed size of \$3.5, 6 in tables, (ABd)

 KRYSZTOFOWCZ, I., LENC-KRUMHOLZ, A. Enduation of infant monthilty in Poland in 1964. Zdrow Publicane 9:371-8, Sep 65. (POL)

Infant mortality showed further declares in 1964. More deaths are now confirmed by a physician and more occur in hospitals than before Howers, still only 60% of suffixed deaths occurred in hospitals. The three Insides consists of death are decases of indired, premiseds, and unfastile duarthers, 6 tables 1 figure, 8 references. (AEB)

694. KUBAT, K., STOLONA, O., SYROVATKA, A. Infast mortality in Crechodovskii following aliceation of the defaution of tre-born infast. Some biological and socral factors anticoomy infast mortality.

Cest Pedar 21:832-40. See 66. (CZ)

In 1955, the definition of a live laws inflat was introduced according to WINO. Compared with 1964, the inflast inentially increase in the CSSR of 3,9% was caused by the electronics of definitions in 2,7%, the greams increase being 1,2% Course of inflast mortally are discoved. Low both weight still present in very referent problems Australyeed are up, corepation, and in the control of the control of the control of the inc. 2 tables, 9 figures. 11 references. (AGM) deliveries. 2 tables, 9 figures.

 KUBAT, K., SYROVATKA, A., KUCERA, M. Ferinatal mortality in the Crochoslovakim SSR and conditions of fetal development, Cast Padiat 19:769-74, Sep 64. (CZ)

> Austysis of 4,402 krient dealtri in the CSSR in 1962 by biological and social functiv. Personal moentality was histogen and social functive Personal moentality was higher for: (1) increased molecular gas purticularly affort aga 35, (2) slightings, thesaises of increased andelence of personalitative, (but, excluding prematurity, perintual mornility was increasing Higherina, and (4) women complexed in agriculture, furthering again at productive recognitive in agriculture, furthering again at productive retent two furtherinal gas in productive record, (ASSE) and the re- including. 7 tables, Rofecocc., (ASSE)

696. KUKLA, T Rate of decrease in infant mortality in Poland in 1933-1964 as compared with other Eneogens countries. Zdraw Publicture 1:115-9, Jun 67, (POL)

Base of decrease is infant mentality as Poland was compared with 2 5 other Empress contribes, year 1955;1964, uses 6th 1955 rate at 100. The Emospan 1955;1964, uses 6th 1955 rate at 100. The Emospan Contribution of the Poland Contribution of the Contribution of the Contribution of the Contribution of the Contribution of contribution of the Contribution of the Contribution of the other Contribution of the Contribution of the Contribution of decreases while Finded cognition of the Contribution of decreases was in Albama, Nervoy, Gener and Great of decreases was in Albama, Nervoy, Control of Contribution of the Contribution of the Contribution of the Contribution of the Other Contribution of the Contribution of the Contribution of the decreases while Finded and the Contribution of the Contribution of the decrease while Finded and the Contribution of the Contribution of the decreases while Finded and the Contribution of the Contribution of the decrease while Finded and the Contribution of the

#### 697 LANDTMAN, B., WALLGREN, E. I. Infant mortality due to congenital multiernations. Jun Parillet Fewn 12:47-50, 66.

Infant mortality decreased from 2.9% (1961) to 1.7% (1964). Congestital mulfernations were the main range of death in 20% of fatalities. Total moreality and moreality crosed by mulformations was higher for boys than for girls Mortality due to malformations was 8 times higher for low birth weight infants (less than 2.500 m). Structural anomalos, however, as the main cause of death were comparatively more common in the latter No difference in infant or in consenital mulformation mortality were noted between garal and urban groups. Both mortalities were higher for children born out of wedlock than for legitimate children, Infants with a moon socioeconomic background had a higher mortality than those with a better social condition. Most parameters studied were approximately the same for infants who deed of congenial maiformations and for lafants who died from other couses. 6 tables. 25 references. (AA)

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Before 1942, Polita vice intuition contained no pain bende definition of the infinis I kay 1953, an instantion was based occurring the application of uniform time to be the interest of the interest of the consistence of the interest of the interest of the interest solve that the new celestra of by both field do sectionally after newborn montally in the whole country. The difference was more than the property of the interest of this protect, except from 1.15 are a size, in Polland for the protection of the interest with her newborn mortality. They ranged, in 1962, from 1.55 is resident on the contract of the protection of the 1962, Warraw I. 1816; 1626 6.56 in Person and 6.78 is

 LUQUE, P. L., WELLER, J., FUNES LASTRA, P. 30xiol supects of infant morbidity-mortality in the Argentine Ropublic Statistics.
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Study of infant mortality and morbidity in Argentina. Prematurity is the principal cause of mountal mortality, and digestive disturbance the older cause of late infant mortality. Factors significantly conceited with increased ride of safrant mentalsy and general mortality, illitoracy, likeplinate its hit, orbanization, belt of maternity belt, non-medical certification of death, and occupation of parents. Infant morbalsy, we province where the principal diseases were re-principal followed by dispatere, then compensal autiformition that principal diseases were reproduced by dispatere, then compensal autiformition that principal diseases were predicted to the second of the second of the second of the second of the second blast second of the second of

MAIER, W.
 Infant mortality among live bit this of married and upmarried pagents: causes of death, duration of life,
 Arch Granch 192-468-74, 14 Apr 64, (GER)

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to other causes. 2 tables. 5 references. (Ed)

701. MATSUO, M.
Trends in infant mortality.

J Ap Med Aut 56:239-43, 1 Aug 66. (JAP)

No English nummers.

 MATTHESSEN, P. C., TROLLE, D., ZACHAU-CHRISTIANSEN, B.
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Statistics on charges in infant and postumies streetly as Desame, since the curity 1900°C. Analysis fectors on trails discovered in the mountain and postumental nontrails discovered in the mountain and postumental source of the contract of the contract of the contract statistics. Changes in premarice of infant and perfamil source of the contract of the contract statistics, the selectorous situation, protition for statistical contract contract statistics, proting the statistical contract contract statistics, proting the statistics of the statistics of the statistics of the statistics of statistics. The statistics of statistics statistic

birth weight infinits. 16 tables. (AA)

703. MCCARTHY, M. A.
Infinit, fetal, and maternal mortality, U.S., 1963.

Visit and Health Statistics, Socies 27, No. 3, Sep 66.
Indeed scoredity was 2.5 death; so p 1.00 leve beloch and the clut was greater among nonwhite infinite, unless offer the South, Frameulory, septiatory disorders, and for the South Control of the

704. MELICHAR, V Analysis of mortality among premature newtorn infant in the Czechoslovakum SSR in 1962. Cesk Pediat 19 778-83, Sep 64, (CZ)

Mortality was subdivided according to birth weight Total mortality was 13% Analyses of course and length of life of prematurely born infants who died involved data such as the time necessary to transport promotures to a specially equipped premature unit. Organizational, therapeutsest, and preventive measures for fuether decrease of uconatal mortality is immature infants are emphasized, 2 tables, 2 figures, References, (AEd)

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Main anatomical findings concerning 1,061 perinatally deceased children. Grasecologis (Basel) 161:211-6, 1966. (GER)

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Significance of infant mortality as a public health probless, and questions raised concerning its evolution to recent years are presented in this review, Changes in trends and problems of comparison with other countries are discussed. (AA)

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> Analysis of courses of death of 9.077 before, 1962, in the Institute for Social Hysione, Berlin, A few infectious disenses (like toxoplasmosis, fisterlosis, and cytomegalia) of early childhood secounted for more deaths than all the other infectious diseases combined. For certain infections diseases (measles, elileken nov. the erime), death rates were higher among children in nurseries and childcare centers before the caset of illness than among those who were cared for at home, 4 tables, 16 references. (Ed)

Ethnogacial comperisons of intraclass correlations as mean gestation times in scontaneous abortion and per natal death. A report of the collaborative study of cerbeal palsy. Amer J Ohner Gynec 97 931-5, 1 Apr 67,

709. NAYLOR, A.F.

ences. (AA)

Analysis of variance of gestation times to occurrence fetal death, recalled by women registered in the Collab rative Study on Cerobral Palsy, confirm literature repor that gestation times to fetal death tend to have differen average values from woman to woman. Irrespective of whether provides are classified as Newo, Paceto Ricos, a white, or whether deaths are montaneous abortious considered up through normal term, intraclass correl tions between times of repeated fetal deaths are est mated to be on the order of 0.3. Negroes report th highest mean times to fetal death, followed by Poers

Ricans, and then by white woman. 3 tables. 8 refe 710. NEWCOMBE, II, B. Environmental versus accretic interpretations of birt order effects. Event Owart 12:90-101, Jun 65.

Infant and early child mortality increase with advancia birth coder independent of maternal age. The large birt order offeet for deaths beyond the first week of life ! almost certainly environmentally caused. The until effort for stillbirths and early poonetal mortabity migh be largely due to maternal-fetal incompatibilities. Birt order does not appearently influence the risk of registers ble handicans, except for strabisens and certain other congenetal mulformations of the nervous system. 5 to bles, 4 figures, 13 references, (AEd)

711. NOLD, B., STALLONES, R. A., REYNOLDS, W. E. The social class gradient of perinatal mortality in dependents of zeilitary personnel. Amer J Ephlem 83:481-8, May 66.

Data are from 6 military hospitals in California, 1959 1960, and 1961. Permetal mortality rate increased with decreasing military rank of the husband, independent o maternal age or parity. Dependents in military hospital generally receive the same high quality obstetric over in espective of rank of husband, Differences in degrees of affluence associated with rank do not seem to explain the observation satisfactorily. Other, less well defined factors which produce and majetain the obecommon or social stratification may be related to physical fitness and affect the chances of survival of offspring. 6 to bles. 10 references. Appendla. (AEd)

712. PELLER, S. Proper delineation of the accounted period in permate mortality.

Amer J Public Health 55:1005-11, Jul 65. Data on fetal and infant mortality from 11 countries collected by Shapiro and Moriyana, were regrouped and re-examined. Should the necessari part of persuatal more

tallty be limited to the first postnatal week or, conform ing to tradition, extend to four weeks? If statistica analysis is no contribute no the solution of permutation, the restorant percent bound be limited to the first posturated work, and the designation "inter scores interestable recognition and reclaims of sentential factors that exceeding the designation of the sentential factors that exceeding the old constraints and neutron sufficient through which determine mentality in an article sentential personal factors that the sentence of the sentence

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#### 713 POMERSKA, E Infant mortality in the list deconnium in Polisid Advoir Publicane 1 21-7, Jun 67. (POL)

In the last 10 years, a decrease of more than two-fold has been recorded in infant deaths due to infectious and respiratory tract discuss, and a many few-fold decrease in infant deaths due to distribut A characteristic variability of infantile mortality was observed with regard to anothers, and common and also to age and crastey 2.

# tables. 4 figures (AA) 714. PONTUCH, A., GAZARUK, F., DRAC, P. Pennatal mortibity in persisture delivends. Cast Groret 29 459-66, Aug 64 (C2)

Analysis of permital introllity in permitate deliveries from national data for 1962. Permital intentity in 19% for permitate infinity (weighing loss line 2,500 g.) The high mentality in permitates conspisated with mixing born at term could not be explained by differences as member's profession or age. Cutus and provention and managament of permitate labor are discussed. 5 tobles. 14 effectiones. (AE4)

#### 715 REIMANN, G On the evolution of the neonatal mortality rate in the

### DDR. Deutsch Gesmilh 19 1654-9, 27 Ava 64, (GER)

Data include the changing infinit mortality rate in the East German Republic, 1946-1961, and the effect upon infant mortality of each of the following sex, leganacy, age of the another, both in an institution, both order, militagle both, employed or housewife status of the mother. 14 tables 4 Eguess. (Ed)

# RENGGLI, I On the problem of pennatal metality statistics concerning newborn infants during 1961-1963 Greecolome (Basel) 158:249-303. 64

Permutal mortality is examined for 1961-1963 with special emphasis on premittinty, Sea, primi and multiparas, both weight, and cause of death are considered in detail. 31 tables. 13 flauris. References (AEA)

#### 717. RODRIGUEZ ARGUELLES, J., URRUSTI SANZ, J., BRENA AQUINO, E.

BRENA AQUINO, E. Perinatal mortality. Ginec Obsset Mex 19 177-92 May-Jun 64. (SP)

# A study was made as a Neuron City beopits, 1961-1963, of 30,396 infinit baths, nethoding 97 pressal, 1961-1963, and 404 necessal deaths. Statistics are given for age at death, birth weight, length of gepaticion, age of mother, and lenth coder. Several causes of primatil mortality are discussed mit business of 130 of the turits were permitted of the mittals which they do not seen to the coder. Several causes of the turits were permitted of the mittals which they do not seen the coder of the mittals which they do not seen the code of the mittals which they do not seen the mittals and the seen that they are not seen to the code of the mittals which they do not seen the mittals and they are not seen that th

# ROSA, F., RESNICK, L. Birth weight and poinated mortality in the American indian Amer J Obstet Gynec 91,972-6, Apr 65.

In count years, vital data on American Industra have shown too pecitarian mortality rates retire to high protriresonatal mortality rates and low soctoconomic conditions. A thinking bound on 1,739 regiments in Indusiant in the North Contral States and a special antiboulism the North Contral States and a special antiboulies and the contral states and a special antiboulsis and the contral states and a special antiboultary and the states of the contral and conditions usually and personal mortality; as addition to the recognized seconded convenients in officences. Many of the possible basis for these small differences many of the possible basis for these small differences centain to be

#### ROTHE, J. Perinatal mortality in newborn infants in the German

Permittin morranty in newcorn matrix in use General Democratic Republic during the years 1952-1961. Z Ges Hyg 10 281-7, Apr 64. (GER) In the GDR, pennatal mortality rate was reduced by 1/3, 1952-1961, coinciding with the emocration of the

Law on the Protection of Mollier and Child and on the Rights of Woman. Full utilization of swallable services would probably produce further reduction. However, were the proportion of sulfabirities and not decline to the sense extent as other inflates montality, this problem requires further effort. 6 tables, 35 references. (AEd)

# SACKS, M., BAKER, T. H. Spontaneous premature supture of the membranes. A grospective study. Anne J Object Gyrac 97:388-93, 1 Apr. 67

Spontineous cupture of the membranes occurred in 415 of 6,209 delivers (78%). In 75% of the caves, the latent petido was biss than 48 hours, in 38, it was over 14 days. The latent period was been for the state of the state of the state of the latent petido was been for the state of the state of the latent petido was been for the latent petido and the state of the latent petido petido

# references. (AEd) 721. SARKANY, J.

Infant mortality in Heingary in 1963 One Heal 106:1457-60, 1 Aug 65. (HUN)

Hungary had an 1963 the lowest subnit mortality rate it has over had, 42.9 per 1,000 law births. The consistent improvements over 6-8 years was disrupted in 1962 when the mortality rate increased slightly but this was only a transent condition. 4 tables. (AE4)

# SCHNEIDER, J. Fotal wastage. a survey of unsuccessful perguancy. Unit Mich Med Gent J. 33:110-3, May-Jun 67.

The nonmetal mortality rate in the U.S. re 17.9 per 1,000 are bettle and has changed little in the last 15 years. Mirched resis! despertites have persented or increased; in 1966 the rate was 16.2 in the white population and 26.5 in the only the properties of the necessary for the results of the control of the persent period, fetal wastage is increasingly percentable. Low the wind the last state of the course of ment fetal wastage. Data are

given on incidence of infant, neonatal, and fetal mortality, and low birth weight (per 100 births) in the U.S. 1950-1964, for whites and nonwhites 2 tables 21 references. (AEd)

#### SCHORR, R. Secological aspects of refant mortality. A craft Forthild (Jone) \$8: 1081-9. 1 Oct 64. (GER)

Scattures on infrast morthety and related social and other factors, for prosent Germany, and for the DDR, 1947-1962. Mortishry from gastroentents is higher for facinist of invest anothers time for those of married morbers, indicenting that social factors are will perdominant in material mortishry, in one region, infrast inortishry uses 20%, factors are used for further with the contraction of the period of the contraction of

 SCURLETIS, T. D., SURLES, K., DONNELLY, J. F. Trunds in infanc mortality in North Circlina, 1933-66. N Cavalina Med J 27:361-6. Aug. 66.

Date obtained trees 1959 door a leveling off or extra e-diphyl downward frest in both occasial and post-section of the contraction of the contract

 SHAPIRO, S., SCIILESINGER, E. R., NESBITT, R. E., JR.
 Infant and permanal mortality in the United States.

Vital and Health Statistics. Scales 3, No. 4, 65. Detailed statistics are provided on changes in miant and permetal mortality since the early 1930's Analysis. focuses on lack of sizable decreases in these rates in the 1950's and on the current attention in white and nonwhite groups and in various geographic validaysions. Statistics on fetal loss, congenital anomalies, and buth weight from special studies are given. Changes at parameters of infant loss that may explain the small decreases in this loss during the 1950's me considered, and differences in rates of change in the infant mortality rate among high-risk groups are analyzed. Presented also are ratios of general practitioners, obstetricumsgyneoologists, pedintricums, nurses, and hospital bedy to relevant segments of the population. Other factors, including obstetrical costs, health insurance, and maternal and child health programs, are discressed, 12 tables. (AEd)

SHAPIRO, S., UNGER, J.
Weight at birth and cause of death in the negental
period, U.S., early 1950.
Vital and Health Statistics Series 21, No. 6, Jul 65.

Statistics on accountal mortality by ago and cause according to weight at birth from vital records for infants born in the U.S. during the first 3 months of 1950. Almost 1/2 the deaths during the first 28 days of the occurred before the end of the first day. At each see

of the necessal parade, the role of dying won servicing could be considered to the consideration of the considerat

SIEGEL, M., FUERST, H. T., PERESS, N. S.
 Fetal mentality in maternal robolla. Results of a prospective study from 1957 to 1964.
 August J. Obstee Grace 96:347-53. 15 Sep 66.

Increase ne entry field destitu and promatal mortality was deserved as a progressive tooly of \$60, course of ancternal stated. In the other land, the course of ancternal stated in the other land. Charge to crosse with some the field of the course of the course of the course of the 125 of the total field loss following redship, and the course of the course of the course of the course of the land of the course of the course of the course of the field separation of the course of the course of the course of the field separation of the course of the course of the course of the contents of the course of

 SEGGEL, E., SCURLETIS, T. D., ABERNATHY, J. R. Posteconatal dentis in North Carolina, 1959-1963. If Caroline Med J 27:366-71, Aug 66

North Caudiar's fairer to make obscantial relations as indicat mortising, 1953–1954, in welfall highly to a situation yellow produced and the product of the product of the product of the production of the produ

STICKLE, G.
 What priority, human life.
 Anne J Public Health 55: 1692-8. New 65.

in terms of future perofunda capacity, as massered by personal score, recons, infant deaths currant all three personal score, recons, infant deaths currant all three of the sugar kilose. The death of some 165,000 infants cancel year presents a best to sciently of an estimated \$1,722 kilose in future income, wheth exceeds the compeable low for so deaths from four disease, concer, and stroke, respectively, by 3%, \$4%, and 404%. The most framelial perior late the achievement of improved life experiency have const, and will contain to come, from endoused mortality in failure, and childhood.

Competing claims for health resources for programs to confice mortality need to be evaluated primarily in tenss of the age selection of the causes of death meder consideration. I table 2 figures, 6 refcratees, (AEd)

 SYROVATKA, A., SRB, V., VOJTA, M.
 Report on a survey of preinaul mortality during the period, 1956-1962.
 Crai, Gravi. 29:430-6, Aug 64. (CZ)

Pennad mortaley in the CSSR declined by 20% between 1955 and 1962. Differences have disappeared between the Carel and the Secondar regions, Contributions of 48% declined for final regions, Contributions of 48% declined for final regions, Contributions of 48% declined for final regions of the pennadors, and including the contributions of the final regions of the first final regions of the resulted final regions of the regio

 TROLLE, D. Reduction of the pennutal mortality. Danish Med Bull 13:147-50, Oct 66.

Data for 1959-1966 on causes of permitted death for 1,666 infants wedping more than 2,700 g. at both low been critically examined 174 deed during the periods, (144 per 1,000 territo). Pergansor, cere and treatment have not been sufficiently willised, size (17) of the permitted during the control for the permitted during might very well have been carefully find the been carefully find the permitted of the permitted during the permitted of the pe

732. VIGUIE, M., MASSE, N., DAMIANI, P. Saudy of the development of infant mortality in the course of the last few years. Sugestions apropos of uscasures capable of pentituting new progress. Prolumn 19:869-90, Oct-Nov 64. (FIG.)

Suncture on minet mortulity for France, 1935-62. Raise are given by age of minnt at death, cause of death, father's occupations, and regard within France. Some international companions are made. The decides in the advantage of the companion are made. The decides in the analysis of the companion and the companion of the companio

 VOITA, M. Stallbarth in the Czechoslovakian SSR in 1962. Cesk Gynek 29 452-8, Aug 64. (CZ)

Stillbards as a proportion of all infant mortality declared from 12% in 1956 to 9% in 1962. The proportion is 4 times higher for mothers over age 35 than for mothers under age 25. 52% of sublishints in 1962 were male. Canses of death are discussed, 5 tables, 3 fignres, (AEO).

 VOJTA, M., SYROVATKA, A.
 Current verspoints on the development of changes in perinatal mortality in Czechoslovakja.
 Cost Zaber 12:43241, Sep 64. (CZ)

Analysis of 4,482 meant deaths in the CSSR in 1962 96% of all burths occurred in hospitals, and the increase The state incompetitizations ignore the instances in our personnel or modifier made (see 2.5 (15.5% of the mothers in 1962) probabily accounts for the decrease in persinated morthlyty observed in the CSSR sease (1955, Social) factors, including legitizately restricted in the continuous propriated interesting the continuous and the continuous areas and infraential mortalisty. Crusters of the continuous areas and the continuous areas are also associated as a second of the continuous and the continuous areas are also as a second of the continuous areas are also as a second of the continuous areas are a second

 WILKERSON, L. R., DONNELLY, J. F., ABERNATHY, J. A.

J A. Pernatal mortality and premature birtls, among pregnancies complicated by threatened abortion Amer J Obstet Grace 96:64-72, 1 See 66.

6.1,137 dedorenes, meluding 2,353 perimatel deaths, 1954-1954, user studied. The medicence of florational abortion, with perpanents subsequently carrying to viability was 1,357. The prematal monthly rate was dutined greater and the medistance of prematurity. 2th times greater in melities who experienced forestanced abortion than in these who did not. Certain freat, material, and continuous melli factors were confidently of training the prematurity associated, with these studies of the prematurity associated with these studies. 9 meleticismess. (AEB)

 WOOLF, C. M Stillbuths and parental age. Obster Grace 26:1-8, Jul 65.

references, (AEd)

Stilletin in Armen, 1981-1961, were analyzed by a courance method to determine it generating are fifted could be detected. Stilletin were selected where the selection of the country of the country of the supported. Results demonstrate in association between stilletin in certain coded group and increased material management. The country of the country of the cause of death. Since cortain congellal mulfernisms of exhibit and country of the country of design and country of the country of design and the country of design and the country of the country of design and the country of design and the country of design and design

737 WRANNE, L. Early reconstal deaths from hyaline membrane syndrome and alfied discades.

Cesk Pedier 20:310-2, Mar 65. Study of 11,720 live born infants in a hospital in Uppmla, Sweden, 1958-1962, revealed an incidence of low birth weight (2,500gms) of 5%. In the weight groups 0-1,000gns, 1,000-1,500gms, 1,501-2,000gms and 2,000-2,500pms, the first week mortality was 95, 62, 23, and 6%, respectively. 53, 24, 9, and 3% respectively oflive born infants in those weight groups died from liyatine membrane disease, intraventmentar brain hemorthese, or pulmonary atelectase without other contributory cause of death. The infants were also classified by birth weight and gestational age. The mortality from the diseases nist mentioned was lower among infants that had considerably lower birth weights than expected from sestational are. Both hirth weight and postational age should be revealed in infant mortality statistics. 1 table. 2 figures. 2 references. (AEd)

738. YAZBAK, F. E., HOLDEN, R. II. Berth order of twins. Appar score, and permutal mortality. Second turn has higher mortality and lower Appar some (numerical nature of condition) than first turn. Rhode Island Med J 49 595-7, Oct 66.

226 pairs of twins from the National Collaboration Study (in which at least one twin was leve born) were

compared as to their perinetal mortality and Appar

scores. The results tend to confirm those of previo studies which suggest a higher mortality for the secotwen, both for stillbertits and peonetal deaths in the fre 24 hours. They also strongly indicate that the first tw of a pair is more likely to obtain a higher Appar sco than the second twin. The causes and effects to the advantage remain to be investigated, 10 tables. references. (AA)

#### III. MATERNAL AND INFANT STUDIES-Con-

### F. SUDDEN DEATH

#### 739. ANONYMOUS.

#### Cot doubles Brit Med J 5489:689-690, 19 Mar 66,

Although infant morality is declining about 1,090 infants (3-6 months of age) dred unexpectedly in England and Water in 1965. More cot deaths occur among infants of young, poor, unwed mothers than among older, wellto-do, married mothers. A higher incidence of oot deaths is found among twins and a lower incidence among only children, infections and cow's milk protein have been suggested as causes but no conclusive evidence is available. (Ed)

#### 740. BANKS, A. L.

### Enquiry into sudden death in infancy.

Canad J Public Health \$7:328-30, Jul 66. In progress for 10 years, is a study of sudden deaths in infancy occurring in certain defined areas of London and in Combridgeshire, Pathological, bacteriological, virological, immunological, and sociological investigations were made and the social enquiries extended to controls triatched for age, sex, area of residence, and time of year. Results suggest that 'unexplained' death in infancy is associated with early bottle feeding, use of a soft pillow, and recent infection; and that adoption of two simple procautions, tif a pillow is used it be hard; complete breast feeding the first two weeks of life) should break the fatal sequence and present many deaths. Included are detailed reports on morbid anatomy, histology, bacteriology, and virology; a memorandum on procedure and technique: the sociological questionnoires: a review of the literature, and analysis of the investigation into sudden death in twens. 10 References (AEd)

#### 741. CAMERON, A. H., ASHER. P. Cot deaths in Birmingham 1958-61.

Med Scy Law 5:187-99, Oct 65. Sudden unexpected deaths of 172, 4-week old infants (80 boys, 92 girls) in Birmingham, England, 1958 61, are described. In 97 cases of death with cause unknown after autopay, 75 showed traches-broachitis and 48 aspiration of vorset. II, influenza, hemolytic streptococci, and pacamococci were the most common organisms found in respiratory tract. Virological studies were negative. There was no owdence of hypogammaglobulinemia. Deaths occurred more often in poprer parts of the city, in winter, and on weekends. Bables in low socioeconomic onviconments are likely to suffer from respiratory infection which may cause regargitation of food. No cot deaths accurred to breast fed infants suggesting that hypersensitivity to cow's milk may be responsible for out deaths. Pour maternal care, poor housing, lack of education of parents all appear to be contributing factors. ? tables, 16 fleures, 16 references, (AEd)

#### 742. CARPENTER, R. G., SHADDICK, C. W. Role of infection, suffocution, and bottle feeding in cot death, an analysis of some factors in the histories of 110 cases and their controls. Brit J Prev Soc Med 19:1-7. Inn 65.

Tabulations provided by the General Register Office. Great Britain, and sociological data relating to 110 "cot deaths" and 196 matched controls are analyzed it is suggested that there were probably about 1,100 "cot deaths" in England and Wales in 1960. The sociological data show that "cot death" is significantly associated with the use of a soft pillow, bottle feeding especially during the first two weeks of life, and symptoms of resplintory disease in the two weeks before death. Several other factors are compared. 3 hypotheses as to the causes of "cot death" (infection, suffection, and hyperrestitivity reaction) are discussed. 7 tables. 2 figures, references, (AEd)

### 743. COOKE, R. T., WELCH, R. G.

A study in cot dos Brit Med J 5424:159-54, 19 Doc 64.

Analysis of 122 sudden unexpected depths in infancy and young childhood (annual rate of 9 per 100,000 population) during a 14-year period. English urban area of 90,000 persons. In 3/4 of the casps, certain characteristics were present, which, however, gave no indica-tion of the cause of death, and in 1/2 there was no history of preceding illness, Investigation procests a relation to the season of the year, the social grade of the parents, the birth weight of the child, and the size of the family. There is also a striking moidence in members of twin pairs. 6 tables. (AEd)

#### 744. GEERTINGER, P. Sudden, unexpected death in infancy. With special reference to the negative roods

Pediatrics 39:43-8, Jan 67. There is andence that construtal subability of the parathyroids of infants is subsect to sessonal variation. Chraneteristics of typical sudden unexpected deaths of infants are: (1) notable seasonal variation in the time of birth, (2) high frequency of morphologically evident anomalies of the parathyroids, (3) law levels of citrate in serum, united fluid, and bone, and abnormally high level of calcium in saleal fluid pointing toward a disorder in calcium metabolism, and (4) appreciable prepondemnee of the male sex. It is hypothesized that SUD of infants is correlated to a consecutal anomaly of the para-

### thyroids. 4 flaures. 26 references. (AEd) 745. GEERTINGER, P.

Sudden, unexpected infant death in Concaharen. Danish Med Bull 14:109-19, Jun 67, Sudden, unexpected, infant deaths of unknown cause (SUD) occur predominantly in the 2nd-4th months of life, mainly in male children, and now compuse about 1/3 of all doubts of this age in Wee Empyrase counters. The associated coursement of SUE does not allow that all of a solution of the second of a solution of a solutio

## GUNTHER, M. Cot deaths Anaphylactic reaction after intrasterine infection as mostless potential cause. Loucet 1 912-4, 23 Apr 66.

The hypothesis in pur forward that anaphylance shock, moreone cases (may) no our's mility precise, nevy, in effect reases he (does) to infective antigene and cases out death. In the case of the contract of

#### JOHNSTONE, J. M., LAWY, H. S. Role of infection in cot deaths Brit Med J 5489, 706-709, 19 Nar 66

A detailed simly of 56 infinites found doub manapersolly und in whom no pathological cause was accentised. Takhogans were soluted from the lower respirately tract in 37 (673) of the 55 casamend batteriologically. No difference was found between the seems wilk mathody interes in even of out-this tain on smooth live mafared to the ratio age and no view was soluted. The resultive of the proportion of cost distrib and no smoothle of the proportion of cost distrib and one form the solution of the lower respirately tast. 8 inhies. 16 references. (AA)

#### LANGWORTH, J. T., STEELE, R. Sudden unexpected death in infancy. Canad Nurse 62:41-5, Sep 66.

A decrease has been setted in shadin of inflates in Canada, practically, them aged 28 days to one year. Canada, practically, them aged 28 days to one year. Canada, practically, them aged 28 days the control of the co

# PETERSON, D. R. Saddon, encapreted death in infinity. An epidemiologic study. Amer J Epidem 84, 478-82. Nov 66.

Sudden anexpected deaths in infants, King County, Washington, were identified circumstantially from death certificases. All but one had post-mortem examinations which rules out a plainty obvious exuse of death. Duning 1962-1964, 173 instances were found (2.87 oer 1.005) live births). Mules, nonwintes, babies of young pothers and illegiturates were more susceptible. Low bertly weight affected suscentibility most strikingly Fewercases occurred in July and August than in other months No trend was seen in distribution by days of the week Deaths were twice as frequent in morning as in afternoon hours. No peographic clustering was found. The data are committable with the hypothesis that deaths occur in certain blok-risk infants under distributiones and nectriested by mild unrecognized infection with microbiologic agents not found in previous studies, or perhaps by some other sensonally hillurenced factor. 2 tables. 2 figures, 7 references, (AA)

# 750. PORTER, A. M. Usexpected cot deaths, Lowcet 1:914, 23 Apr 66.

It seems likely that oot deadts have a multiple citology, if there were evidence to support the hypothesis in re-quest of even a small proportion of such dealth; then it would become mandatory to secen sistance and adsocquent siblings of a deceased infant by aminoacid wine communicacity). It would also be legitimate to gestion characteristic policy. It would also be legitimate to gestion extensionable, it would also be legitimate to gestion assembly and the second of the second disease the provider of human subtle. It selections (A.M.)

#### SOKOLOV, E. Ia., VASIL'EVA, G. P. Apopos of sudden death in childhood, Padiatrific 44:52-4, Jun 65. (RUS)

Analysis of infant death rate due to various discusses, 16-year pectods, showed that the largest manber of suddes deaths occur between 4 and 6 months of age. Data concerning-character of the discuss, the seasons, and the promissibilities of disvilipment of affected infants are sitem. 2 frames. 1 seferaces. (AEAI)

#### STEELE, R., LANGWORTH, J. T. The relationship of antenntal and postnatal factors to sadden unexpected death is infancy. Comml Med Act J 94:1165-71, 28 May 66.

El casas, of walden innespected death, in infancy (SUID) were identified in Ontation, and matched with live common. Analysis showed that SUD occurred slightly more often in sands fains in Framely, and that the imaginity of deaths occurred middle of montion of mg. SUD was shown the common of the

753. SUTTON, R N, EMERY, J L. Sudden death in infancy. A microbiological and epidemological study

Arch Dr. Child 41 674-7, Dec 66.

Involunce of resumatory elliness in the community and unexpected deaths at infancy in the city of Sheffield. 1961-1964, showed a close correlation especially during condemic of inflinenza. The contacts of 10 infants who thed in this way were investigated for pathogenic viruses and bacteria. The proportion of contacts who harbored such bacteria was significantly higher than that in a control population 3 figures 21 references, (AEd)

754. VALDES-DAPENA, M. A. Sudden and unexpected death in infancy. A review of the world leterature 1954-1966. Probetrics 39 123-38 Jan 67

This review discusses mony factors related to sudden death in infancy including nathologic changes, ondemologic factors, and chologic mechanisms. Among the emdemiologic considerations are incidence by arc. sex, race, season, geographic location, secoecomolitic group, maternal factors, and family reoccurrences. Among the chologic mechanisms discussed are sufficiation, infoction, bacteriologic, viril or toxic agents, or metabolic errors 13 tables 105 references, (Ed)

#### G. OTHER OUTCOMES OF PREGNANCY

 ACHESON, E. D. Hospital morbidity in early life in relation to certain material and foctal characteristics and events at delivery. Bit J Pres Soc Med 19:164-73, Oct 65.

Study of inpatient hospital merbidity during early months of life of 5,901 behivs, bern 1962, Oxlord Record Linkage Study area, 203 (3%) were discharged once or more during 1962. Langest single cause of admisson was congesital melformation. Howital morbidity of tables drivered at house (3.2%) was almost identical to that of those delivered in hospital (3.5%), in state of selection of difficult cases, militarias, and grand multiporas for delivery in hospital. Of characteristics studied, low maternal age was the most important in hospital morbidity of the buby, Bables less than 5% its at birth had agnificantly lugher hospital morbidity, lowest rate was in babon 8 to 9 lbs Type of delivery, length of second stage of labor, type of maternal anosthesis, or administration of exvect to the laby at hirth did not determine hospital morbidity of the baby. For dounclumy algorithms, there was a striking correlation between the work of pestation in which the first antenatal visit of the midwife took place and the morbality of the halvy. 15 tables. 4 figures. 11 references, Annewdix. (AEd)

 ADAMS, M. S., NEEL, J. V. Children of most. Padiatrics 40:55-62, Jul 67.

> Is prospectively insertanted cases of healther x state and fifter x damplists mutilism, and electrically, A veries of filegilitante challers whose mobilers were as nearly susticled in possible to the meet insolves for intelligence, age, longits, weight, and vorosonomic conditions were need a construct. See to the children of neisers that disled a wese found to have maper defects on following 6 months after birth, whereas one of the comprisem dishren was concired to the control of the comprision dishren was controlled. This is a larger ultrecoding effect then would be resolved in the few S. Ishies. 1 G. Jeferences. (AM)

757. APGAR, V.

Drugs in prognancy. JAMJ 190:840-1, 30 Nov 64.

A survey of medications administered in programey and a brief discussion of published and prospective stuffice organing the offeet of the medications on the fease and the newborn infinit, Includes a table: "Medications and Changes Produced." I table, 5 references, (Ed)

 BAIRD, D. Variations in ferbility associated with changes in health sistus. J Chronic Dir 18:11:09-24, Nov 65.

Discussion of reproductive capacity, and factors affecting fertility including health and physique of the mother, ago and parity, spenng of children, dist in prespacey, ment factors, and standard of obstatric care. The essentilis for easy and efficient childbearing are youth and first class physical development and natration, If, in such women, the first chief as born by age 20, the total restricted to 4, and the last born before age 30, the primatal mortality would be very low, probably less than 15 per 1,000 from all causes, given a good standard of obstorite cury 9 tables. 19 references. (Ed.)

BALODIMOS, M. C., HURXTHAL, L. M.
 The remote prediabetic state. Effect on infant size, fetal and person tal mortality.

Guietrics 21 (19-27, Sep 66, 30% of 200 elderly women with a mean age of 65 were dutetic. A similar link prevalence of abnormal carboliverate tolerance in older persons has been reported by various authors. The pregnancies of 130 women (average of 34 years eather, ranging from 16 to 65 years) were correlated with their present carbohydrate tolerance. A luzher prevalence of multiple large infants and more than one obstetrical anomaly was found in those who were discovered to have diabetes 16 to 65 years later compared with those with a normal carbohydrate telerance. Statistically no more large babies were been to diabetic women than to nondiabetic women. Although the predisbetic influence on obstetrical anomalies may extend indefinitely, it is not as evident as in the 2 to 5 year period preceding elimical onset. Many diabetic women give birth to normal infants and several women with normal carbolivelrate tolorance tests 16 to 65 years later had abnormal pregnancies, possibly because of factors other than prediabetes causing obstetrical anomates. 3 tables. 37 references. (AEd)

 BANIK, N. D., KRISHNA, R., MANE, S. L. Longitudinal study of interbidity and mortality pattern of children in Delhi during the first two years of life: a review of 1,000 children Indian J July Res 55:504-12, May 67.

Mexically, and nortality nature of 1,000 children in ADM longitudinal rapk dening the fast 1 years of life. Alternated in determine the offect of ver of children concepts on the control of the other concepts of the control of the c

 BARKER, D. J., RECORD, R. G.
The relationship of the presence of disease to birth order and material age.
 Anne J Hum Gener 19:433-49, May 67.

Discussed are methods of analysis for determining whether the presence of a disease is correlated with birth order or maternal age. A new method for nanalysis within frattenities is described, and the interpretation of visitations of disease incidence with birth rank, naturental age, and fortility is explored. 13 tables, 21 references, (AEG)

762 BARNO, A. Criminal abortion—deaths and smeater in pregnancy in Minimosts, 1930-1964.
Man Mod 50 11-16 bin 67

Material deaths due to enumeal abortion, 20 around 1,232,545 live infinite in Mirroscott, 1950-1964, divided squally between septice abortions and all comboties and between flequitionsy and legal programacy. During the 15-year period, there were 14 sureduced programs of the between the control of the comparison of the control of the comparison of the c

763. BARTOSZEWSKI, A., RADOMANSKI, T., KLONOW-SKI, H. Effect of threatened abortion on the further course of programery and the fate of the naturals.

tables. 7 references (AEd)

Przegl Lek 22:747-8, 66 (POL)

The course of regularsy and the fairs of monators in 50 cm of 114 pagassar stores hospitals, deceased of an el 114 pagassar stores hospitals, deceased of long and the fairs of the fair of the fair of the fairs of the fair of the fait of the fair of

BEDGER, J. E., GELPERIN, A., JACOBS, E. E.
 Sociococomme characteristics in relation to maternal
and shift health.

neomites dio. 10 references. (AEd)

This Heinki King H 1287-33, Say God, A special to Crossy puttin in 1964 included: unsignit of sederocomonic characteristics and other relation to only building relocking, such research with direction, board complete building relocking, such research with direction, board of the control of t

various health indiose. 3 tables 10 reformers. (Ed)
765. BERENDES, H. W., WEISS, W., DEUTSCHBERGER, J.
Factors associated with broach definery.

Asser J Public Health \$5:700-119, May 65.
Study of relationship between heered delivery and various situacitativities of its guard vorsion and the profession of the programs. Data refer to some 17,000 programshes to the programshes of the pr

low than among heavier both weight infants. Relatively more thort gestational age fetuses were breech deliveres. Details of a linear discriminant analysis with 22 selected variables for evaluation are provided. 6 tables. 3 figness (AED)

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A report of a study of all pregnances on Ksuo, Howes.
For each 1,000 live boths, there were an estimated 1,311
For each 1,000 live boths, there were an estimated 1,311
for each 1,000 live both 1,000 live both 1,000 lind populate 1,000 lind popula

renoss. (AA)

BRAY, F. N.
Therapeutic abortion: incidence and indications in Minnesota.

Many Med 50:129-36, Jan 67.

Dats provided, egazding neidlence of theraporties shore, 1935-64, from 26 inspiratis in Duluth, St. Peni, Minesapolits, and Rocfustie. Of questionniles to dorso regarding desired indications for therapsulae shorton, 200 were returned—106 by psychiatratis, 94 by obstatratism. Routilt sac green. The Minescoto Obstatration. Routilt sac green. The Minescoto Obstatration. Routilt sac green. The Minescoto Obstatration. Routilt sac green.

 BUCK, C., VALENTINE, G. H., HAMILTON, K. Reproductive performance of mothers of mongols. *Jours J Mart Delle* 70: 886-94, May 66.

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appendixes. (AEd)

A study at Precisions's Hospital, D.C., of 6,000 isfirets, delivered 1937-59, 291 of whom were to mother specific 16.16 (3% of the total), 6.5% received an presental ceru until the third telimenter, and 2.4% were stillbirth. A second series, 1996-65, for 14,310 deliveries, 41 among adolescents, theward toxensis isolatence to be 5 times and continued to the control of the control

 CZEJZEL, E., ELEK, F.
 Seasomi changes in the frequency of fetal durage and fertility.
 On Henri 107 2466-9, 25 Dec 66, (HUN)

 DAY, R. L.
 Factors influencing offspring. Number of children, interval between programors, and age of parents.
 *Anne J Dis Child* 113:179-85, Feb 67.

Review of published studies on savinal and hoult of children or ratalion to finally size, agasing of pergnancies, and ages of purents. Younger age (20-30) of the mother and a young father are simulated with persure of the surface and fewer of certain conjunits autformations. First-own and higher terits order babtes are associated with greater (iii. 2-3 years between belttable). 4 labels 2 flueres, 28 foregroup.

DONALD, I.
 Obstetric aspects of preventire medicate in the periodal period.
 Proc Ray Sec Med 59:134-8, Mar 66.

Assertment of conditions of Surin of 1,500 ballote born in Gingows, Scolland, 229 had complexed delivering, 766 were of netroil pregnancy and labor. Agar stores as given for account of unfavorable programmery and labor and for neighborable factors in great programs (patents, for cause of unfavorable block rathest in seemal pregnancy, and for neighborable factors in pregnancy and form of the programs of the case of the programs of the case of the programs of the case of the programs of the

772. DRURY, M. I. Programmy in the diabetic.

Dieleres 15:830-5, Nov 66. Study of 300 prognancies in 156 Irbit diabetics: 30% of the pregnancies were fifth or later; mean maternal ago was 30 years. Abortion rate was 11% and loss of viable infants was 10%. There were no araternal deaths. Control of diabetes was strict and this is reflected in the occurrence of hypoglycemic come on 21 occasions. Diabetic ketosis occurred in 12 cases; all were embooked emergency admissions. The influence of these complications on fetal survival is contrasted. Pre-colemptic toxemia and hydrounies in the mother, and respiratory distress avodrouse in the infant contributed heavily to infant loss. Of recent years, the aim has been to deliver at 38 works in uncomplicated ensor usually by the vaginal route. The cossress section rate for the whole series was 22%, and for primiteravidus, 29%. (AEd)

 FARBER, R. E. 1965 birth certificates show encouraging trend in promital case.

Maryland Med J 15:153, Nov. 66.

Study of birth certificates for 1965 in Battimore shows the following gains: (1) increased utilization of existing health facilities for perent alera, (2) More pregnant conwhite girts under: 16 sought producted care (16.2%, 1965), 8.4%, 1964) and improvement was shown by all age groups in somwhite women, (3) Deats are for nonwhite infants dropped by 13.5% over 1984, although the death nite for white infants remained about the same, (4) Live hirth rate of residents declined, white by 10.8% and nonwhite by 8.2%. The Baltimore Materially Center cared for 6,243 programt patients in 1965, and 6,211 in 1964. (Ed.)

FOX, H.
 The significance of placental infraction in perinatal intribution and mortality.

Biol Neguet 11:87-105, 67. Infrarction is recognized as a localized area of villous necrosis due to a local obstruction, and to maternal utercolorantal circulation. The incidence was studied in 715 placentus. Infarces were found in approximately 1/4 of placentas from uncomplicated pregnancies. Preeclamptic toxonia and essential hypertension were the only maternal factors associated with an increase in incidence or extent of infarction. Extensive infarction was associated with a high moidence of accounted asphyxis, low birth weight, and intrautering death. Infarction could only be invoked as a common cause of death in prognancy complicated by toxernia or actidental antipartum bemorrhage. It is significant that low birth weight found in eases, with infraction is frequently due, as much to the associated maternal arteriofar and concomitant placental ischemin as to the actual loss of placental rissuc. 9 tables. 4 figures. 65 references. (Alld)

 FREEDMAN, R., COOMBS, L. C., FRIEDMAN, J. Social correlates of fotal mortality. Johnnik Mess. Pand Quart 55:327-46, Jul 56.

> Loughtedned study of feets inertality among a random sample of white women in the Datoid area who had a Lut, 2nd, or this line latin in July 1961. After an interset initial interview, there were bailed following interviews 9 and 21 membra lator. Data new preconded on fetall too makes in collision to ago, neathly prior fetal loss, from income, mother's complexity, prior fetal loss, from croses about seasoner and finding of children, and stitdings and the collision of the collision of the collision.

tudes toward pregnancy. 8 tables. 17 references. (Ed) 776. FUJIKURA, T., PROBILICIJ, L. A. Intrastorine paternosis in relation to litrit weight and rece.

Awar J Obstet Grose 97:81-4, 1 Jan 67. Introvierine pregrantia require a common and often fatal infectious process despite the advent of antibiotics. Acute choriomenionitis is generally accorded as its freowent procursor. In a histologic evaluation of guirno nary sections of 512 seorgial deaths within the first 48 hours of life out of 36.212 single live births, 20% were found to lave preumonia. The proportion of neonatal deaths showing pagements was higher in the Negro (28%) then in the white (11%) and consistently high in the Negro at each birth weight interval. The association of pneumonia and chostomomoratis was more pronounced in the Negro (51%) than in the white (28%). In the white, the hugdence of presumonia was higher in mature (birth weight over 2,500 games) than in premature infants; in the Nesso it was not higher in premature compared to meture Infants. This is in contrast to charlogranionitis which is more common in premature births, 3 tables, 15 references, (AA)

 GOLDBERG, D., GOLDSTEIN, H., QUADE, D. Association of personal factors with blindness in children. Pub Health Rep 82: 519-21, Jun 67

Reconceives usely of \$33 gailty band distillent of surgle bath loses on New York State drongs a 12-year may be that loses on New York State drongs a 12-year way of the property of the New York), (3) the competitions of regions due to New York), (3) the competitions of regions of the New York), (3) the competition of the property due to the property of the property

 GRAVEN, S. N., OPITZ, J. M., HARRISON, M.
The respiratory distress syndrome. Risk related to maternal factors. *Amer J Obstet Grase* 96:969-76, 1 Dec 66.

 HENDERSON, M., REINKE, W. A. Analytical bias in studies of pregnancy outcome. *Journ J Obstet Grane*, 96:735-40, 1 Nov 66

> Description of three types of less introduced and malying of studies of programsey. In each tree, the bits canfrom selection of patients for final analysis, 'Bu replacrations are consistent of the studies of the selectable of patients of the selection of the selection of continuous or an internal of time is open to silvate to the selection of the selection of the selection of the time. It is imposed that this report will emphasize and more time of the selection of the s

HENDRICKS, C. II.
 Delivery patterns and reproductive efficiency among groups of differing socioeconomic status and othoic origin.

Amer J Ordent Cymer 37 0038-24, 1 Mar 67.

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 HENDRICKS, C. H. Twinning in relation to birth weight, mortility, and congential anomalies.

Obster Gyrec 27:47-53, Jan 66.

Among 438 women delivered of multiple pregnancles at
University Hoppitals of Clereband in a 9-year period end-

urg December 1964, transming met was higher among women of high parity, titiesen their Borth deceds, and among those whe had presquedy borne test pregnancies. The high primarial mortality rate is patallised by a high lendersoo of congenital anomalies. Each of these factors of observed of them; in those mint stope limit weight high lendersoo of congenital anomalies. Each of these factors to observed of them; in those mint whose faith weight follows the mean better weight of all toom infants to and confiniation works of the mean term which is the stop of the mean term and the stop of the mean terms and the stop of t

 HEUSER, R. L. Motople births, U.S., 1964
 Vital and Health Statistics: States 21, No. 14, Oct 67.

> Twening nins have decidined same the 1920's, Multiple deliporists are more frequent immore Progree women than white. Rate of twening more to agas 35-59, and then designer. The injust the party, the more Medificacl of twins. Observed affecterors are due should emittely to twin a blower of the progree of the progree of the same frequency regardless of age or many of the mother. The preportion of traplets among all deliwaries a approximately the squares of the projectors of form from some gold deliveries, or producted by the Hellin-Zeday hypothesis, and the progree of the projectors of the same progree of gravity as twin area. S fallolis, Calling the age and

0 HEWITT, D., SANDERS, B., STEWART, A. Oxford surrey of childhood cancers: Progress report, IV, reliability of data reported by case and control motions. Monthly Bull Minist Health (London) 25 805. Apr 66.

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The burth weight and support of Ginesian twos.

Ann Hum Genet 30:13-24, Jul 66, 286 Changian twin births are arelyzed with regard to birth weight, maternal age, parity, and survival, and are commared with European data. There is a significant but unexplained shortage of female-female twins. The differences between Ghanzian and European twin birth weights (0.2 fb.) are much less than the differences between weights of single babies (0.9 lb.). The very high correlation (r=0.8) between parity and mother's age in the data is due to the association between twinning and these variables. The litch narrity of the Glionaism twins (LS%) is smaller to that of Italian twins and lower than that for some English (was (21%), This is shown to be largely due to the lower propertion of low weight Ghangian twins. It is suggested that this may be because twiening is a more natural phenomena in Ghanaian than in European women, 26 tables, 1 fleure, 9 referonces. Appendix. (AA)

ILESLEY, R.
 Preventive used is in the perional period. Early prediction of perional risk.
 Proc Roy Soc Med 59:1814, Mar 66.

ISHICHENDO, J. M.
 On the analysis of maternal mortality.
 Sover Zdravookfu Knglz 6:43-7, Nov-Dec 65, (RUS)
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onssion. (AEd)

784 KANE, S. H. Advancing age and the printigravida. Obstet Groce 29 409-14 Mar 67

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## LYSTER, W. R., BISHOP, M. W. An association between manfall and sex ratio in man. J. Reprod Ferril 10:35-47, Aug 65

Sussonal variations in secondary sex ratio in man in Portly, Adolaide, and Brisbane appear to be influenced by seasonal variations in rainfall. In these cities, the onset of the mmy season is followed about 11 months later by a larger than normal excess of mule births. Sex ratio in Sydney, however, where rainfall is more evenly distributed throughout the year, does not vary markedly with cosson; but a relationship between rainfall and sex ratio again becomes apporent when the data are analyzed in terms of wet months and dry months and of wet years and dry years. It is suggested that secondary sex ratio is affected by trace elements in drinking unter that after with variations in musfall. Support for this hypothesis has been obtained from an examination of sex ratios in two regions of Australia with trace element deficiencies. It is also suggested that drinking water everts its effect through the male parent and that the observed variations in secondary sex ratio reflect unitar variations in primary sox ratto. 11 tables, 1 figure, 7 referonces (AEd)

#### MCDONALD, R. I. Lunar and seasonal variations in obstetric factors.

J Genet Psychol 108:81-7, Mar 66. To assess lunar and seasonal variations in obstetric factors such as birth intes, birth weights, and incidence of promaturity. Subjects over 1,909 fullterm Negro deliverses occurring over a wy-year period at a southern community hospital. Births you consure a section of induction were excluded. Significant findings were: (1) more births occur during the newmoon and fullmoon phases than during the quarter playes. (2) monthly variations are observed in female birth rates, highest rates occurring on August and Soptomber, (3) there is a spring birth trough (March, April, May) for female births, (4) mean male birth weights are robably larger than mean female birth weights, and (5) mean male birth weights for fall months (September, October, November) are larger than those for spring months (Masch, April, May), These findings are discussed and related to previous results. 2 tables. 18 references. (AA)

MENYASZ, E., ONA, M., KESU, G.
Clinical observations and latioratory studies on the effect
of lead on pregnancy
M. Gracel, 87, 17-34, 2 Jan 65, (GER)

Two greats of pregnant courses who worked in leafcontaining surrouslings were observed. It was foods to be a some of the course of the course of the course and that in scorese who delivered living, inflients inflarit, seed task were negative or only vightly positive. Where pregnancy enisted in infant death, spontaneous missionrage, or premarks their, the leaf into of the workers were definitely positive. Doeseniasting organs beston were designed in the featur. The premarks burth rate was \$2. the syntaneous answarrance sets 22 in the groupces (ARG) that the course of the course

788. MEY, R., GORG, I. Smoking and prognancy. Med Klin 62 S-10. 6 Jan 67 (GER)

No English summary.

MICKAL, A., BEGNEAUD, W. P., WEESE, W. H.
Glucoe tolerance and excessively large infants. A
weekey-cag following study.
Amer J Obstet Grace 94:524, 1 Jan 66.

Obstity, abnormal glucore curres, and repetited deliregard of faunts in exceed of 4,000 ga or significant with regard to the future development of disbetter. 79% of the presents in this study who but this titud are now disbetter. Of the 67 tested, 24 (36%) are disbetter, until 14 (21%) of the study are and uncome convex in the nonregional state. 60% of a disbetter of prediction of the study o

 MONH; G. R., SEWER, J. L., COCHRAN, W. D. The 11-1 and the RV viruses and pregamey: Serological study of certain groups of pregnant women: A report from the collaborative study of cerebral palsy. J Pedas 67:233-6, Jung 65.

Serial serum specimens from 133 women whose prog nancies terminated in: (1) spontaneous abortions, (2) stillbirths, (3) mongolism, or (4) consental defects involving bone and cartilage of the skull, were tested along with specimens from 266 matched parent controls to assess frequency and significance of human infections during regenency with II-1 and RV viruses. Antibody was detected in only two women, and the sole infection as manifested by a significant case in antibody titler occurred in a mother whose programcy terminated in delivery of a monecloud child with a 21 trisomy. This lack of detectable effect found in studies does not preclude the biological significance of these viruses; howover, there was no evidence that these viruses adversely affected this study population, 1 table, 9 references, (AA)

 NISWANDER, K. R., BERENDES, H., DEUTSCHBER-GER, J.
 Petal searbidity following potentially anoxigenic obstetric conditions. V. Organio leart disease. *Amer. J Obstet Gyme* 98:871-6, 15 Jul 67.

The charts of 327 program women with organic heart discuse were abstracted and analyzed primarily for fetal offect of the discuss. Careful prenatal and pediatric care apparently markedly decreased the not of permatidatals. The persuantity rate was consolerably higher than expected and there were consolerably higher than expected and there was more than the frence consolerable and the second consolerable and the collation of the thildren to the age of me year failed to reved any evidence of secundoparal dysfunction related to the presence of organic heart desiase in the nithite, 6 highes, 13 decreases.

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Risk registers for habits.

Develop Med Cluld Neurol 9:13-21, I'ch 67.

The graceptes of the "at risk" concept for the early detection of hardragped children are examined in to the value of "at risk" registers as currently organized in Bitlant, As a positio of this continger, respect orients are suggested for the placing of infinite on the "at risk" register which it is hoped might increase their value for

both chinical and resurch purposes. 5 references. (AA)

174. PAFTENBARGER, R. S., MCCABE, L. J.

The fefter of observed and pursuant events on rol. of intribil filters in women of childheateng age lawer. Public Healin 54, 400-07. May 6-6.

 PARADISE, J. L. Maternal and other factors in the etiology of infantile cubs. Report of a prospective study of 146 infants.

JAMA 197.191-9, 18 Jul 66. Significant colic developed in 23% of 146 normal newborns. Its mediance was unrelated to family economic class, maternal age, both order, son, weight gain, type of feeding, or family history of affering or governmentical disorder. Superior maternal intelligence and advanced maternal education seemed associated with a higher than average incidence of cohe, possibly because of better maternal reporting or lower maternal televance. The orcurreace of colic showed no relationship to metternal emotional factors, whother estimated clinically or messured by a standardized psychological test. Most mothers of infants with colic were stable, cheerful, and featurance. This evidence, and other evidence when critically resewed, does not support the frequently stated new that cohe results from an unfavorable emetional change preated by an mexperienced, anxious, hostile, or unmotherty matter, 10 tables, 2 figures, 24 references. (AA)

94. PATRICK, M. J.

Influence of maternal renal infection on the fetus and

Arch Dis Child 42:208-13, Apr 67. Abortion, stillbirth, and prematurity rates were not increased in bacteriusic patients, whether or not this persisted throughout programcy or was enadsested by prolonged chemotherapy, when compared with a group of combosteriuric automatal patients at Stolubill General Housital, Glasgow. The neonatal death rate was significantly excreased in the bactersane mothers as a whole, and this was mainly due to defects of dorsal midbine fusion. Asymptomatic bectmunic and clinical pyotoncohntes were significantly more frequent in the infants of betteristic mothers as a whole, compared to those of nonbacterisms mothers. Evidence of infection, to suggest that material bacterems can myelve the fetur, was found in amniotic fluid, umbilical cord blood, placentas, and cords 5 tables, 30 references, (AA)

 PILDUS, R. S., FORBES, A. E., CORNBLATTI, M. Studies of carbohydrate metabolism in the newhorn in first. IX. Blood glacove levels: and hypoglycemia in tenns.

Pediatrics 40 69-77, Jul 67

ences (AA)

Blood sagar determanations were stone through the live if days of all fee on 100, sets of twirm Hypoglyceman any found in the unafter in 8 of selvers pines who were detectable to make the 25% with the vanisher twice weighing been than 2.0 kg, Hypoglycewin coverned to occur other pair of the remaining 10° sets of feets. Blood algence seless were not influenced 10° better 50° to 10° to significantly higher blood sugars, thus those who weight significantly higher blood sugars, thus those who weights leaded 2.50° m. 1 stable. 2.50° to found 5.0° for the leafeway 2.50° m. 1 stable. 2.50° to found 5.0° for the

POINTS, T. C.
 Epidemiological approach to materially health needs.

 J Oblo Med Air 58: 230-4, Jun 65.

An explorability at study of maternal health south proluming to deliberate of 4,700 healths at Unrovelyt of Chilaboum Medical Center Hospital, 1959-1961, 151° of Chilaboum Medical Center Hospital, 1959-1961, 151° of the balase ware Magno, 65 lothan, 165° of the white Magnonian and the study of the study of the study Department, as good, earlier in the spatients of prior, by personate units was highest for these patients who fill are not have greated easy. Overall personal normality are not have greated easy. Overall personal normality are not have greated easy. Overall personal normality are not have greated easy. Over all personal normality are not have greated easy. Over the study of the normal have greated easy. Over the study of the normal have greated easy of the study of the normal have greated easy of the study of the normal have greated as a study of the study of the normal have greated as a study of the study of the patients. Tables, 15° performence, when the study of the patients, 3 tables, 15° performence, when the patients are the patients. Tables, 15° performence, when the patients are the patients and the patients. Tables, 15° performence, when the patients are the patients and the patients and the patients are the patients and the patients and the patients are the patients and the patients are the patients are the patients and the patients are the patients are the patients are the patients and the patients are the patients are the patients and the patients are the patients are

RENKONEN, K. O.
 The mothers of twins and their furtility.
 Ann Med Exp Fear 44: 322-5. 66.

Average number of deliveries of mothers with twinexceeded the normal average of 3.3 by 0.5 deliveres in Australia (1910-1914) and the normal 2.5 by 0.5 to New York State (1936-37). It is prefemble to assess the twie ning rates as the number of twin births divided by the number of births within the twist families and not by the number of all births. On the basts of a series of families with twins and/or triplets, collected from l'infant and Sweden, the influence of birth order and of age of mother on twinning rate has been evaluated. Within the three first birth orders, the rate increased with mother's age but hardly at all within the late birth orders. With increasing birth order the twinming rate diminished for cidofly. These findings suggest that the estimated char actoristic of mothers with twins is high fertility. In munological aspects as well as family planning may tells ence the rate of twinning in different birth orders an age groups of mothers. 3 tables. 5 references. (AA

 RICHARDS, I. D., ROBERTS, C. J. The "at risk" infant. Lancet 2:711-3, 30 Sep 67.

"Midespread adoption of the idea of an "at risk" register for the detection of handleapping disease in infance, he ided to the statute in which as undefined optimition is being screened for undefined conditions by propie who for the most part, are untrained to detect the condition for which they are looking. The "at risk" content is a maneural thank for the detection of handleapping the

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orders. There is no alternative to the clinical commination of all linfants in the meanatal paraed, their seconding for intubolite and auditory defects at the proper agos and the careful observation of every infant's developmental amortists by declars summered by health without. (AA)

#### 799 ROBINSON, D Obstetrical care and social patterns in metropolitan

Boston.

Pub Health Rep 82:117-26, Feb 67. Data from 2,445 berth certificates filed in Boston, 1962, for 10% of the infant nonulation restricted to manually normal families and for all 1,791 out-of-wedlock births. Buth weight, fortibly, maternal age, and prematurity are discussed in rolation to otheric group, legitimisey of births, unmagration status (foreign and out-of-State), and socioeconomie status. There was considerable dispanty in the use of particular hospital facilities by different scent, economic, and othesic groups. Virtually all complications of programmy were channeled into 5 of the 13 hospitals in Boston, with a special concentration into 1 urit, not all because of geographic convenience. Examigation of qualifications of physicisms attending 3,040 births revealed that physician coverage was primarily determined by socioeconomic and ethnic groups. Board certified obstetricisms tended to practice among white, married, suburban women. Less affluent whates depended on general practitioners with less obstetrical experiences. Unmarried white and Negro women depended . primarily on hospital interns, Residents cared for the youngest, the primigmvides, and those with scute social problems that were likely to affect the course and outcome of the pregnancy. 4 tables, 25 references. (AEd)

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J Obase Coyune Bit Coison 727-844, Oct 66.

A problemsup reposequelve suxery of 1.25p pergamt women for possible harmful effects of modeling. The complex field of the modeling. The control of the contr

#### RUSSELL, P. A. Subdural Internations in infancy. Brit Med J 5459:446-8, Aug 65.

25 care of infoldent human tone in infinity recretived, All the patients personal ven less than Justill land a lateity of transmit. The common test than half land a lateity of transmit. The common control of the cont

#### SEVER, J. L., NELSON, K. B., GLKERSON, M. R. Rubella quidemic, 1964. Effect on 6,000 pregnancies. Amer J Dir Child 110,395-407, Oct 65.

Daring the rubolit quolarine, spring 1964, 6,161 per sent women were saudied by II institutions in the colluborative study of cerebal polys. Analysis of this population and the pregnancy outcomes through the scontail partied for the 750 women, who had olimical partied for the 750 women, who had olimical public ow were exposed timing the first intraster, yield and the property of the property of clinical litters, cheesis infection, and pressitutivy 13 tables. 6 Signers, 25 references. (AEC)

#### SIEGEL, E., CHINNOCK, R. F., HYMAN, C. B. Hemolytic divase of the newborn. Review of deaths an California. Calf Med 105:81-8, Aug 66.

## SPIVAK, M. M. Therapeatic abortion. A 12-year review at the Toronto General Hospital, 1954-1965. JOBACT Grace 97:316-23, 1 Feb 67.

Presented are data from 262 the expected abortions at Teconic Green Illograta, 1935-1955, Indications for the expected abortion and methods used in territactive pregrampy along with subsequent morbidity and complications are catilized. The value of the therapeutic abortion statutes, and proposed changes to filterative abortion statutes, are presented, 6 tables, 11 references, (AA).

#### SUZUMURA, M., KIKUCHI, S. Induced abortion in Japan—review of interature. J Jap Obstet Gyney Soc (Engl 13:179-97, Jul 66.

The real number of induced abortions in Japan is unknown. The majority of the operations are performed by specially "authorized" doctors; incidence of side offects is much lower than in other countries whose the majority of abortions are done "eriminally". The sacratice of the fotus, and its side offects, make the operation undesirable. Oatse often, disorders caused by induced abortion are taken as the sequelar of induced abortions when in a strict sense they should be interpreted as those of miscarriage or even of entocia. Many disorders are retrospectively investigated when they should be done prospectively. From the literature, habitual and natural abortions are the only sequence attributable to the induced abortion. Of serious direct side effects, uturine injury, bleeding, and inflammation are the most prominent. When induced abortion is indicated, it should be performed before the 4th gestational month. 18 tables. 71 references. (AEd)

806. TIMONEN, S., LOKKI, O., WICHMANN, K. Sensoral changes in obstetrical abenomena Acta Obstet Gynec Sound 44:507-33, 66.

713.

Seasonal variations in obstetrical phenomena were examined in two series of deliverses, 27,522 from Helsinki and 57,089 from the whole of Finland. Factors evamined were conception mies, duration of pregnancy, prematurity, duration of labor, hyperemess, toxenso, birth weight, sex rates, paundice, and obstetrical infections. All factors except presenturity showed seasonal varia-tions 13 tables 2 figures 31 references. (AEd)

807 TRAINOR, P. E., WHALEN, R. P. Evaluation of quality of infant medical records. New York J Med 67 1911-4, 1 Jul 67.

> Deficiences in medical records of nowborns were found in a study by the Empire State Medical Scientific and Educational Foundation, Inc. The findings were a sidelight of a continuous medical sudst program that dates back to 1963, 48% of records reviewed totally locked medical orders for the newborn. A general lack of record keeping for the newborn child was found particularly in smaller hospitals. Major deficiencies, found is all hospitals regardless of size, were lack of medical orders, lack of dates on medical notes, and delay of 2 or more days from time of birth to time of record note. I poforcace. (Ed)

808. TROLLE D. A survey of pregnancy wastage, perinated mortality and

national classification.

references. (AEd)

maternal mortality and a suggestion for a uniform inter-Dough Heat Bull 14:10-6 Jun 67 Statistical data are influenced by the choice of definition, and uniform definitions are proposed in order to facilitate international classification. It is recommended that the total number of programetes be registered, since almost 95 percent of neuronney wastage takes pinor within the first 28 weeks of gestation, 8 tables, 15

809. TURCHETTI, G., LATTANZI, E., PALAGI, R. On the influence of essential applicapathies of pregnancy on life of the fetus and vitality of the newborn.

Misserve Gree 17:142-9, 15 Pels 63, (IT) The case file of the obstetrical and gynecological clime, University of Piss, 1950-1963, was examined for clinical and statistical evaluation of perinatal mortality in eravidio toxicoses. From a study of the statistical date, the undsvorable influence of gestosis on fetal life and neonate vitality was evident. 14 tables. 5 figures. 20 references (AEd)

10. UNDERWOOD, P. B., KESLER, K. F., O'LAND, J. M. Parental smoking empirically related to pregnancy outcome Obster Gynec 29:1-8, Jan 67.

A prospective statistical study of 48,505 pregasordes was carried out to evaluate the efforts of parental smoking on recenancy. Although the infants were smaller and the incidence of permutarity greater, no adverse effort of maternal smoking during programcy was shown in terms of permatal mortality. The incidence of percolumnation was decreased with maternal smoking; however, other more frequent complications of pregnancy were incurred. Norther smoking by fathers nor the use of filter type control affected the outcome of resemney 6 tables. 5 figures. 19 references. (AA)

\$11. DYIAN, W. H. Obstatrical implications of promancy in primin avideo ared 16 years or less But Med J 2.734-6, 17 Jun 67.

A series of 100 consecutive white prinsigravid patients aged 13 to 16 years was analysed and compared with a control group of 100 consecutive white 22-year old primieravel nationts. In the former there was a lost incidence of hypertension and townile; the prematerity rate was higher as was the parinatal mortality. There was also a greater meidence of prolonged labor. Though the fatal hand was not engaged before labor to half of the patients, instrument delivery and causarean section rate was very low. This series is compared with other studics. 2 tables. 10 references. (AEd)

812. VERRELLI, D. Closely spaced pregnancies, influence on the mother and

Quad Clin Oster Gioce 19:1132-62. Dec 64. (IT) Observations by several authors on closely spored prognancies are noted. Various anomalies of childbirth are listed, with references to literature on each, Review of about 100 cases of parients at the obstetric and everenlogical clinic, University of Parma, Italy, and conclusions, 4 tables, 49 references, (Ed)

813. WALLACE, H. M. Tren-exe pressuncy.

Amer J Obstet Grace 92:1125-31, 15 Aug 65. Simiffeent facts from various sources are cited includies demographic data, clinical findings, nutretion, veneral disease, and out-of-wedlock promusey. In 1959, 14% of all bables were been to teen-age mothers. For this group, higher rates of prematurity, secondtal mortality, and low birth weight infants were found. 4 tables. 1 figure. 9 references. (Ed)

814. WALTERS, W. A. Effects of sustained maternal hypertension on foetal growth and survival Lauret 2:1214-7, 3 Dec 66.

> Survey of all booked city primigravidas in Aberdeen (Scotland), 1951-1960, revealed low incidence of sustalued hypertension in pregnancy, 0.6%, Among \$5 patients with sustained hypertension the perinatal mortality (7%) was almost 3 times as high as in normotensive primigravidus (2.6%). Other newcess factors besides byportession were present in all 4 cases of perinatal death, Where sestained hypertension was the only adverse fortor, no neclinated deaths occurred. The perinatal mortality in all subsequent pregnancies among patients who had sustained hypertension in their first pregnances was low (1.7%). Sustained hypertension of mild to moderate degree did not influence the growth of the fetus. 5 tables. 6 references. (AEd)

815. YEN, S. S. Abnormal carbohydeste stetabolism and prognancy. A study among programt Guamanian women.

Amer J Obset Gynec 90:468-73, 15 Oct 64 In view of the striking prevalence of diabetes mellitus in the native population of Guam, particularly among women, a study of some of the characteristics of carbo-

hydrate metabolism in a group of progrant Guamanian women was undertaken. The study indicated that Guam's entire pregnant population may be "diabetes prone," and brought out other medical entries that are notewarries because of their frequency on the aland of

## 816 ZANARDI, E., SEGATA, L.

Guain, 6 Daures References, (AA) Homolylic disease of the newborn caused by RH isolmmunication. Clinico-statistical findings. Rtv Ital Garce 50:433-52, Jun-Jul 66. (IT)

Data from 9,200 deliveries at Bologea University. 1961-64, revealed incidence of pronatal hemolytic discase due to RH isoimmunization at 0.4% among total newborns and 3% among children born to RH negative mothers, 58% appeared during the second preparity, 15% during the third, Stillbirths occurred in 17% of the cases and postestal mortality was 7%. The more severe forms were correlated with maternal anti-RII titers granter than 1:64. In cases with early exchange transfusion (70%), no soquelic were observed. Prosent disgnostic and prophylactic and therapeutic problems are discussed. 10 tables. I churt. 68 references. (AEd) 817. ZWERDLING, M. A. Factors pertaining to prolonged programey and its out-

Pediaturs 40:202-12. Aug 67

Presmancies that extended more than 3 weeks beyond the expected date of confinement were studied among 9,719 angle, white births from the Child Health and Development Studies in Oakhnit, Calefornia, and means 357,702 births that represented all white singleton progsancles in New York City, 1957-1959 In both studies. prolonged pregnancy was associated with younger maternol ago, primigravidas, high parity, feral and neostoral mortality, congenital anomalies, poorer health status for the first 3 years of life, and recurrence of prolonged programmes in successful gestations. Data on growth and intelligence in a wealf group evanued at age 5 revealed no differences between children of prolonged and of normal gestation. There was no gross placental finding to support the hypothesis of placental sonliny as a cause of pathology in prolonged pregnancies. 10 tables, 18 references. (AEd)

#### A. ANALYSIS, TECHNIQUES OF

 ALTMAN, I., CIOCCO, A. Introduction to occupational health statistics. IV. Association and correlation. J Occup Med 3, 35-2, 3n 66

> Referring to the situation where two londs of observations have been made on the same populations going, or where the same observations lave been said on two groups, and we work to compare the two sted of result, questions such as these sains in there an association viring a rich association, and what it the nature of it, for example, a noise variable producing the other? The author explains the application of the chargance best to used, problems, absorbing the other produces of the charge of the secondary. Association of the chargance but to use the secondary of the property of the charge of the charge of the secondary. Association of the chargance but to use the secondary of the property of the charge of the pro-

 ASKANSAS, Z., CZERWINSKA, S., LISZEWSKA, D. As opidemiological method sixed in preliminary determination of morbidity and occurrence of coronary disease according to the insure yellar and ECG findings.

Pol 7 vg Let 21:1395-9, 12 Sep 66
Discussion of methodology in epidemiological surveys of coronary dissues, Diagnosies were based on interviews of patients, objective oxumenation, and ECG findings. Method of selection and differences between chinical and epidemiological methods are discussed. 1 table, 12 references (AEG)

820. ASKANAS, Z., CZERWINSKA, S., LISZEWSKA, D. Methods for the evaluation of results of the representative investigation of blood pressure distribution so a

general population.
But The Lek 20:1019-42 | 12 to Les (DOL)

Discussion of methods of labulating and onlinting reutils of representative investigations of attendal blood persoare distribution in large populations. Errors in the evaluation of studied parameters in the population, cased by improved the labulation of data, and exactly cased to the population of the population occurring to exactly of a representative mostly are discovered. I inthe 5 references (AER)

 BAKER, T. D.
 Problems in measuring the influence of coonomic levels on morbidity.
 Amer. J. Public Hoolits 56:499-507. Mar. 66.

Norbidity-economic patterns may show large, apparent chifu, depending upon the methods of missioning economic level and morbality. The explanation of these diffit may be that consonic level and to make the content of the content of

2

 BARTON, D. E., DAVID, F. N., MERRINGTON, M. A enterior for testing contagion in time and space Ann Hum Gener 29 97-102, Aug 65

According to a test made in England, a criterion for testing the association of the occurrence of diseases in place and time is applied to measles, polionychita, and acute leukenia. The test showed strong association in measles and polionychita, but did not indicate any association in acute betweenia. I alabor. 9 references. (AA)

 BORHANI, N. O., HECHTER, H. H.
 The application of statistical methods in the analysis of blood pressure distribution curves.
 Ann. NY. Acad. Sci. 126: 758-66. 6. Aug. 65.

823 CHIANG, C. L. IV. On the formula for the surinnee of the observed expectation of file-E. B. Witton's approach.

Hum Baol 38:318-9, Sep 66.

Several methods have been suggested for dearing the foreight for the ournance of the observed expectation of hfe—Wilson (1938), Irwan (1949), and Chaing (1960). Dr. Wilson's approach was quite ingenious and a minor error in reasoning can oaily be corrected, In memory of Dr. Wilson, the author takes this opportunity to use his method to denve the correct forgula. Seven equations

months are contented with totals for the remaining manifest from the line of demarcation between the 2 halver is arteriary and the set will then be based on the largest difference which can be constructed. This paper was compiled from tests made at Virginia Maltary Acadensy, Blacksburg, Va., and Newcasdo upon Tyne, England, 3 references 2 taskes, (Ed)

 DROSNESS, D. L., REED, L. M., LUBIN, J. W.
The application of computer graphes to patient origin study techniques.
Pub Weekla Rev. 30:33-40. Jpm 65.

One of the first concerns in battle facility planning is assiyating the prographic near stratuge to the hospital pattern service relationships. A mapping technique base of the computer program of pertung numbers or symbols within a stated geographic new. Introcetoms are younder within a stated geographic new. Introcetoms are made to the constitution of the constit

has given meeters to the experiment seems to be a problem of the control of the c

#### #27 ERPENDECK I

The possibility of an immediate comparison of general fectivity rate with the total fertility index and its practical usofuliness, Shown by the example of fertility development in the Genjan Democratic Republic (Get 10): 12:790-802, Sup 66. (GFB)

Propose from time measures listed on relationships between the general fertifity rate will the store of general fertifity rate will the store far-pro-fix fertifity rates, dividing the latter by 30 for convenience. The "deparce of fearmability" of the age composition of women of child-bensing age 8 the difference between these tates, and the "relatedinion effect" of the age composition is the quotient of these rates. 2 to betw. 7 abstracts. 12 references, (Abd)

# FORSTER, F. Dre of a demographic base map for the presentation of usen date in epidemiology. But J Pres Soc Med 20:165-71, Oct 66.

Principles disone niec on the connections geographical between qui down and more freed population officencies. Development of the desaugraphic may affer possibilities to be proposed to the proposed of the possibilities and to prographic opticions. It as attempts to achieve these disoners of the proposed of the formst over the latter for the proceedings of the formst over the latter for the procedural of the formst over the latter for the procedural of the formst over the latter for the procedural of the formst over the latter for the procedural of the formst over the latter for the procedural of the formst over the latter for the procedural of the formst over the latter for the procedural of the formst over the latter for the procedural of the formst over the latter for the procedural of the formst over the latter for the procedural of the formst over the latter for the procedural of the proced

#### 829. GITTELSOHN, A., KINCH, S., Applications of life table analysis and antensatic computer selection of population subgroupings for emboviscular epidemologic studies. Am NY Yel Acad Sci 126:761-78, 6 Aug 65.

Two issues are discussed: Data processing methods from the standpoint of computers, and measuring disease risk is population subsets followed over time by IFe table methods. 6 tables. 3 references. Appendix. (Ed) Two methods one presented for ceilinating expected frequences of parental death during childhood of psychiatra patients that may be a summarized to credit frequences computed from U.S., generation life statistics. The short method, based on grouped purential patients method, based on grouped purential gage and median year of birth, yadded results that corresponded doorly with these of the longer method tocal on summarized or distribution probabilities. No design of the properties of the proper

#### childhood of the 321 psychutric gaterats in the present study. 5 tables. 21 references (ACd) 31 GREGORY, I. Refrespective cutmates of orphanibood from generation life tables. Milliank Men. Plant Quart 43:323-48, Jul 65.

In the U.S., there are no direct cortius extractes of the frequency of explanation of in the presents of explanation of interpretation population, and extilizates from servey samples libert apparently reflected enhancepering. Generation life skilled can determine a state of the contraction of the state of the present Actual astitutes were developed for children bern in Minescria in 1939 strauming the upon of 15 years in 1954 and compared with those reported by a sample of 11,225 Minescria collector in multiplied, attenting a more age extraction of the contraction of the contra

#### 832 GURALNICK, L., JACKSON, A. An index of unnecessary deaths. Pub Henith Rep B2:180-2, Feb 67.

oblings. 6 tables. 32 references (AEd)

of the number of duaths occurring in a grown it its Inside of unmoverny duals (UCI). The reveal is the indifference of unmoverny duals (UCI). The reveal is the indifference population and the number of duals that occurred an internal ferromatic communities population, Applications of the control of the indifference of the control of the 1994. In our pite auteurs of it is live blovest duals not observed in state in that the profit of received any group out by crame of denta as the noist ferroristic, for comversal, and the present percent of accused quality extends, and the present percent of accused duals for curring from substraints. It is concluded that there are of grown to applicate in more timely throughout the day grown to provide the control of the control of the control of grown to applicate in more timely throughout the

The number of excess duaths expressed as a percentage

# IPSEN, J., FEEGL, P. Appropriate scores for chinical and public health variables. Amor J Public Health 56:1287-95, Aug 66.

Discussion of a procedure whilely deals with a situation where discuss frequency or severity can be expressed by saveral variables, and one is chosen or several are weighted for analysis. This means some lost of haferune. tion and the question arises concerning the magnitude of the loss. Appropriate scoring for several dependent variables is discussed and three examples illustrate its application. S references. Appendix. (AA)

834 JOOSSENS, J. V. The parameters of atheroscierosis mortility. Acta Carolid (Brav) Sauni 11, 145-167, 65.

Presents a method for estimating the appearing continuous of posters and environmental factors to any set of agospecific deaths mass. The method is based on the observations that: (1) for many chronic descess the agospecific death mass are exponential functions of agospecific death mass are exponential functioned on the observation certain times, and (2) for any particular case of within certain times, and (2) for any particular case for the control of the method and applications of data on etheroscience dessers in many counters are

goven. 10 tables. 6 figures. 8 references. (Ed)

835. KITAGAWA, E. M.

II. Theoretical considerations in the selection of a mortality andex, and some canolineal consensions.

Hame Bolt 38:129-308, Sep 66. Review of vanous contributes makes ethicses that desired exhaustees (Ethipaua, Demography) 1964). Some empirical exhaustees (Ethipaua, Demography) 1964). Some empirical exhaustees of the state of

 KURINARA, N., TAKANO, A.
 Computing method for the relative survival rate for eaucer patients.
 Apr J. Corner Clin 51:628-32, Aug 65. (IAF)

No English summary.

KURYZKE, J. F.
 On statistical testing of prevalence studies.
 J Chronic Dis 19:309-22. Aue 66.

These tests of stitutions significance will enfilles for an assessment of data from studies of pressiones or included assessment of the first from studies of pressiones or included control decare of desays, and should usually be applied, as appropriate, by unbined of papers, These tests, for which sillustrations are given, see: (1) confidence limits, for another workstone of an observed stud, (2) an adaptation of the Chiesquare contingency test, for differences to the control of the Chiesquare contingency test, for differences to consistion confidence, and (3) the application made order to whose Additional confidences, in the control of the Chiesquare consistion between variables. 2 tables 4. (Burnes 4. 4 telegranes, 1620.)

MANTEL, N.
 The detection of disease clustering and a generalized regression approach.
 Center Res 27:209-20, Feb 67.

The problem of identifying subtle time-epison clustering of disease, at may be occurring in teakensia, it described and reviewed. Published approaches, generally associated with studies of leutermia, not dependent on knowledge of the underlying population for their validity, are directed towards identifying clustering by establishing a relationship between the temperal and the spatial separations for the rin-10/2 possible pritis which can be formed from the n observed cases of disease. Improvements in the procedure are suggested as well as discussed of application to other situations. 4 tables, 13 references (AED)

 MAZUR, D. P.
 The graduation of age-specific fertility rates by order of birth of child.
 Huu Baol 39:53-64, Feb 67.

A general solution to the problem of emphating perorder specific fertility rates is presented here in the force of equations applicable to situations where only rates of total fertility by order of birth of child are available, or where the data are gathered in very broad age categories. Theoretical considerations presuppose knowledge of certain basso parameters, such as mittal, termonal, and modulage of fertility in a population of women. The graduation of rates to any desired degree of specificaty by age of women and up to the 6th and higher orders of birth can best be done on the basis of period specific rates and, under certain conditions, with generational meanures. In addition, the model can serve as an hauristic device from which deviations in actual data can be measured. The results of graduation are illustrated numerically on the base of the natality data for Guatamain, as reported in the United Nations Demographic Yearbook. 3 tables. 7 references. Appendix. (AEd)

MCCARTHY, P. J.
 Replication: An approach to the analysis of data from complex surveys.

Vital and Health Statistics. Series 2, No. 14, Apr 66. Among the estimating schemes for variances of estimates tross complex surveys in recent use is a helf-sample pseudoreplication sechnique, described in detail. It involves subsampling a parent sample in such a way that 20-40 pscudoreplicated estimates of any specified statistic are produced, with the precision of the corresponding statistic from the parent sample being estimated from the variability among the replicated estimates. A system for controlled choice of a limited number of pseudosephicates is presented such that for some classes of statistics the chosen small number of replicates has a variance algebraically identical with that of all possible replicates of the same character within the parent sample, and the same expected value as the variance of all possible replicates of the same character for all possible parent samples of the same design. Disstrations of the technique

and pides for its use are inclinded. Tables. (AEd)

400. MENOTTI, A., NATALE, M., PUDDU, V.,
Isomoriality for cardiovascular disenses. Assempted application to Italian areas of a new mortality study procedure.

Claver Circ 50:1-27. Feb 66. (IT)

 MILLER, D. A. "Significant" and "highly significant." Nature (London) 210:1190, 11 Jun 66.

Proquently, is scientific papers, one finds the terms "insignificant," "displicant," "lisiplity significant," used, a labble of symbols and abborraintous is given hore, as a suggestion in clarifying and simplifying the use of those often used torms. I table. (Ed)

714

#### 842 RAO, B S

Munual dependence of apidemiological variables in the causition of disease (A view point). Indian J Public Health 10 63-5, Apr 66

Discuses are brought about by a few specific causes rather than by a nullopheity of factors. Most of the factors (multiple causes) associated with disease may not he necessarily causal After careful study, it may be possible to distinguish the few primary causes of a div case and to differentiate them from the secondary factors (that effect the purmany causes author than the disease) as well as from those that by virtue of their dependence on the primary or secondary factors are the mere accompaniments. Discussed are eight epidemiologscal factors (age, sex, occupation, muntal states, clusser, place, time, and some-culture) with respect to their inter-dependence, inter-relationship, and influence upon each other. 4 references (AEd)

#### 843. ROGOT, E., GOLDBERG, L.D. A proposed index for measuring agreement in test-retest

J Chron Dtt 19.991-1006, Sep 1966

This nater is concerned with measuring agreement to test-rotest studies of religibility. Discussion is confined principally to the 2 x 2 case. The constrainly used index of agreement is enleulated as the number of subjects identically elastified by both test and refeet divided by the total number of individuals classified. The usedquacies of this index (referred to as the index of 'cruck serrement' and denoted by A) are dispessed. In light of the deficiencies of A, an index of 'adjusted agreement' denoted by A1 is proposed. A1 yields the very useful result that expected agreement (bused on observed man gleals) is always 1/2 or 50%. The two indexes A and As me compared by utilizing numerical examples and by application to published studies (including data from the National Health Survey). The limitations of As are discussed. A test of significance for the 2 x 2 case, and the extension of A<sub>1</sub> to the m x m case are considered. II tables 3 figures, 6 references- (AA)

#### 844. ROSENBERG, II. M. Seisonal adjustment of vital statistics by electronic com-

Pub Health Rev 80:201-10, Mac 65.

Monthly birth, assuringe, and down rates have exhibited segonal natterns. A method was developed by the Burees of the Centus, using an electronic computer, to establish the nature of these seasonal patterns and to remove the identified seasonal component from time series of monthly date. The method is basically an adaptation of the ratio-to-moving-average method, for sessoually adjusting time series of economic data. The application is useful in the retrospective and current analysis of vital statistics. Good results are indicated for both and marriage data, but not entirely suitable for mortality statistics. Continuing research should yield better upproximations of the trend-eyele and an adequate method for isolating the opidemic component of mortality time series, 3 tables, 8 figures, References, (AEd)

845 SHLPS, M. C On the person years concept in enidentialogy and elemography.

Milhank Mem Fund Quart 44.68-91, Jan 66 Pt. 1 An pressugation into the beliavior, under defined condi-

tions, of the "exposure time" or "person years" suchces that are often used to estimate asks. The behavior of the index "occurrences per person year of exposure" has been studied through a motheratical model, Numerical illustrations of the results, obtained by exact culculations, by a segulation program, and from approximate expressions are presented. The findings reported suggest that conclusions that have been based on this moles in warrows studies may be subject to some question Investigators, may find it responsive to re-evaluate data on which such conclusions have been board. 4 tables, 2 far-

ures. 21 references. Appendix. (AE4) 434. SIGURIONSSON, J. Index sales for commercia the amountance of arterio sclerotic and desengative heart diseases as a cause of Apper J Med Sci 250,395-401, Oct 65,

846. SPIRGELMAN, N., MARKS, H. H. I. Empirical testing of standards for the age advestment

of death raies by the direct method.

Hum Biol 38:280-93. Sep 66.

ence. (Ed)

Description of a series of tests to select a standard for the commutation of accodinsted death rates by the disect method in planning the mortality tabulation for the series of Vital and Health Statistics Monographs sponsound by the Statistics Section of American Public Health Association, Wallout regard to other possideratipus. For the problem at hand the logical choice of a standard would have been the age distribution of popula tion in the census of 1960 because the extensive tabultion program was based moon deaths for the surroundir period 1959-61. It is dear that the choice of this stanand in preference to the consuses of 1940 or 1900 wor affect the levels of the age-adjusted rates in considera degree. Since a substantial volume of age-adjusted rates already magintle on the 1940 course of population poets, it was decaded to use the same standard for 1959-61 tabulations, 4 tables, 1 figure, 1 re-

847 STOCKWELL, E.G. Potterns of digit perference and avoidance in the statistics of some round national consists: A test of Turner hypothesis Eugent Quart 13:205-8, Sep 66.

Turner (1958) supported that persons will send to ovreport digits that are multiples of the divisors of the b of the number system while under-reporting those di solich are not. In spite of exceptions and in xoute sariation in the extent of diest preference and syouds: amone several countries considered here, it can be o cluded that the data confirm Turner's hypothesis. Futi tests of this hypothesis should seek to determine if expected nattern with resert to ceesus age statist characterizes all segments of the writers populations. if there are more or loss significant differences associat with saith variables as we, color, or urbaneural residence. In addition, it might he worthwhile to see if Turner's hypothesis is substantiated by age data repected on birth and idealit certificates. 2 tables 8 references (Ed).

848. STOCKWELL, F. G.
Use of sornerconomic status as a demographic simulse,

Pub Health Rep 81:961-6, Nov 66. Analysis of demographic correlates (fertility, mortality, regration) of sourceconomic status (SES) among 169 towns at Connecticut Levels of fortility and migration tend to be positively associated with SES, whereas levels of mortality are negatively correlated with all the SES undexes. These demographic measures are not necessarily related in any consistent hishion to all the component variables (occupation, education, income) of SES, Social and economic factors are major determinants of demographic behavior. The way in which SES is defined to g in terms of income as opposed to education) will largely determine the nature and extent of any resulting relations. That is, the tailure to observe consistency in the various socioeconomic rolations discussed stems from the many definitions of sourceconomic status. Lebert. 25 references (Ed)

 TRUETT, J., CORNFIELD, J., KANNEL, W. B. A multivariate analysis of the risk of coronary bears diseaso in Franciaghan. J Chrome Div 20:511-24. Jul 62.

> The denomicage of the 12-year probability of developing coronary heart disease in Frammaham on T risk factors. has been investigated, using discriminant functions. Desrate marked departures of the actual distributions from multivariate normality, the description provided by the theoretical risk featition series well with the seited data The difference in incidence between highest and lowest decites is 30-fold for men and 70-fold for women. Relative differences in incidence between highest and lowest decides of risk are most marked at the younger age groups in both men and women. The most important rak factors, aude from age itself, are cholestrol, eigerette smoking, ECG abingresolities and blood pressure. Wright, while also a sumilicant risk factor, has a considerably smaller effect than these four 8 tables 2 finares, 6 references (AE40)

RSO. WALLACE, H. M., EISNER, V., DOOLEY, S. Availability and swelphase of selected health and sociococomes data for community planning. *Amer J Public Health* 57:762-71. May 67.

> This paper describes the availability of health and social indexes in San Francisco and compares 2 methods (plotting the data on respected faster analysis) of determining their suctionises in the identification of high risk consurtions.

track in the report, the most notable halfst nedex-so distines available for made yet en adequate personal error, fetal autolity, the moderner of premainty, and the modelner of informions. The most until someoncentum melocs were low momen, mindepunity personal compositions, also day, eligitations, and personal distinciones years, it was quested that these 4 melocus can be come years, it was quested that these 4 melocus can be used in portectors years at starce of predictions, change to supplement underso devired at the time of the change to supplement underso devired at the time of the

 WEINER, J. M., HOPKINS, C. E., MARMORSTON, J. Use of correlation structure analysis in estimating suryreal benefit. June NY Acod Sci. 126:743-57. 6 Aug 65

where the present production of the graph of the production of the

This paper generalizes previous work of Feigl and Zelen, who assumed survival time of a chronic disease (e.g. esiscer) petient to follow in exponential distribution. Exported servine time, the reciprocal of the parameter of the exponential is considered to be linearly related to a measure (concomitant variable) of the severity of the decesse. The present purply extends the statistical model to retreat maximum trialihood outleasters of the nummeters to the linear regression where not all putients in a followup study have died by the end of the study. For different study lengths the effort on the size of the preventable standard errors is determined. Fust assuming all patients to enter together, and next assuming entry at regular time intervals. Approximate standard errors are also obtained aversuing uniform entry rate and small random variation in the concomitant variable. 4 tables I reference. (AA)

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#### R EPIDEMIOLOGY

- SH. ABFRNATHY, FR. GREENBERG, B. G., WILLS, H. B. Smokeme as an independent variable to a multiple properties analysis upon burtle weight and pestation. Amer J Public Health 56-626-33, Apr 66.
- 853. BAKER, T. D. Problems in measuring the influence of economic levels on morbidaty Amer J Public Health 56 499-507. Mar. 66

A survey of 66,000 persons in Taiwan to discover and measure the links between morbidity and economic level. Economic level may be assurated by ascome. expenditure, or wealth, Definitions of morioday and exemples of cases are provided. Problems involved in studying the effect of economic level on morbidity are discussed 2 tables, 36 references, (Ed)

- 325. DEANE, M. Endemiology of chronic broachitis and employeess in the United States, II. The interpretation of mortality data. Med Thorec 22 24-37, 65
- 854. FEINSTEIN, A. R. Clinical and intellectual coases of defective statistics for the securosis and treatment of lung cancer. Med Clin N Amer 51:549-62, Mar. 67

Contemporary statistical approaches to the prognosis and treatment of lane cancer are defective because the clinical features of patients are not succified in the correlated analysis. The statistical defects are based on stacms that denotes structure but not function of the cancer, on therepeutic citations that omit the biologic significance of sessons for "insperability." and on execuments of quantity but not muglity in survival. Because of these omissions, the collected numerical data are often "statistically significent" but ofinically and scientifically deficient. Specific techniques for correcting the defects are proposed, 3 tables, [1] refercores. (AEd)

- 665. FELDSTEIN, M.S. A method of evaluating permatal mortality risk. Brit J Prev Soc Med 19:135-9, Jul 65.
- 855. GERTLER M. M. WIETER II Individual differences relating to coronary artery discuss. Ann NY Aced Sci 134:1041-5, 28 Feb 66.
  - A linear regression equation that utilizes several variables is potentially far superior to any single variable in selecting the coronary-group individual. The best individual selector is height below the mean. This variable selects 18% of individuals, in contrast to secure choicsterol value one standard deviation above the mean which selects 59%. Those two fall far below the entire group of variables when expressed in linear regression form, i. c. 92%. There is no concrete evidence from these data to support the view that blood prossure and cholesterol act synergistically to nacrease the risk rate of coronary artery disease. I table. 3 figures. 7 references. (AEd)

856. HAYNER, N. S., WATERBOUSE, A. M. AND GORDON T. The one-hom and ghoose tolerance test, Vital and Health Statistics, Serses 2, No. 3 Jul 63. Response of middle-used mon to 100-erom and 50 and doses of glucose given fasting and 1, 2, and 3 hours are r neal. For bege population studies the oral glaces toltrance fest, the decrove dupnostic test for dubeic . p. inspructioni. Participants in such varyers control is expected to come to the exenunition in a fasting state nor to submit to a procedure listing several hours of requiring a succession of sein punctures. This study examines 2 of the variables in the diorience and susplified procedures used to surveys which may :

glacose response from that obtained in a standard ! . . .

test-the interval from the last ment to the start of . . .

test and the dose of placese given in the drant " 598. KLEMETTI, A., SAXEN, L. Prospective versus retrospective approach in the ... for environmental causes of amblemations. Amer, J. Public Health 57:3071-5, Dec 67,

tables. (AEd)

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- 375. KULLER, L., LILIENFELD, A., FISHER, R. Quality of death certificate diagnoses of arterioscies :: heart disease Pub Health Rep 87:339-46, Apr 67.
- 857. L'ELTORE, G., GALLONS, M., GUELL I. Statistical methodology in epidemsological reporting. Lotte Twhere 35:1665, Nov-Dec 65.
- 153. MIKKELSON, W. M., DODGE, H. J., DUFF, I. F. Estimate of the prevalence of rheumatic diseases in population of Tecomsch, Machagan, 1959-60. J Chronic Dis 20:351-69, Jun. 67.
- 858. MONTOYE, H. J. EPSTEIN, F. IL. KJELSBERG, M. ( Relationsido between serson cholesterol and body (a) ness. An opidemiologic study, Amer J Clin Nutr 18:397-406, Jun 66.
  - Several indices of body fatness were utilized, including measurements of triceps and subscarpilar skinfold thickness, and relative weight (the ratio of observed over predicted weight, predicted weight bring calculated from a regression of body weight on height, baccomid and bicristal diameters). A low but statistically significant relationship was found between serum cholesterol levels and body fatness, even at an early ago and portioutarly among stole subjects. Tocurreth, Michigan, study of 6,500 persons, aged 4 or older, 3 tables, 5 figures, 33 references. (AEd)
- 172. O'SULLIVAN, J. B., WILLIAMS, R. F. Early diabetes antilities in perspective. A possibition study in Sudbary, Massachusetts, JAAJA 198:579-82, 7 Nov 66,

859. OVCHAROV, V. K. Selection of an area sample for the study of the morbidity of the population. (RUS) Sourt Zdramnikhr 13 3-11.65.

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614. ROUQUETTE, C.

A French prospective survey on congenital malformations. (Survey of the Institut De La Sonte Et De La Recherche Modicale 3 Consours Med 87:6443-4, 6447-8, 6 Nov 65. (FR)

860. SHEEHE, P. R.

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Combination of log relative risk in retrospective studies of discaso Amer J Public Health 56:,1745-50, Oct 66.

Retrospective data may be classified in 2x2 tables. Each table for a background characteristic (e.g. age) is divided into those with and without disease (e.g. acute lookemus), classified by those with and without a focal characteristic (e.g. radiation exposure). The natural log of the ratio of the product of the diagonals is the estimate of los relative risk. A weighted average, over all 2x2 tables (e.g. sil age groups), is obtained by weighting early relative by ats inverse variance. Statistical properties of the measure are shown to be similar to those of the standardized difference between proportions. The comlumption of log relative risk is preferred because of its direct connection with prospectively stated hypotheses (by treating meidence or provalence of discuse as a consequence of pre-reisting characteristics) and prospective studies are number based on leads from retrospective data. 4 figuros. 6 references. (Ed)

861 VOORS, A. W. Data storage, retrieval, and re-use in epidemiologic studies

Pub Health Rep 81 1092-4, Dec 66.

Each original epidemiologic study can serve to test some hypothesis and to provide a body of primary data for use in any applicable future test. Re-use of epidemiologic data can be an economical and useful sten in the scientific process. Rouse can be promoted by the adoption of an inconcasive method of data storage. which includes some redundancy to permit detection of copying errors, and by the use of an existing specialized library service to provide accessibility. In a sample of 30 epidemiologic papers, the data of all but 4 had a bulk which remains within the practical limitations inherent in such library service. 2 tables. (AA)

459. WYNDER, E. L., HYAMS, L., SHIGEMATSU, T. Correlations of international cancer death rates An epidemiological exercise Cancer 20.113-26, Jan 67.

YANASE, T.

Use of official records for genetic and epidemiologic studies. Jap J Hum Genet 10:60-71, Aug 65 Comments on limitations as well as reliability of infor-

(Japanese Tytle: Jimmi Idengaku Zasshi.)

mation in official records, Janua. These can be of value for a number of genetic and epidemiologic studies, In practice it is desirable that a system be established specifically for investigation of the records. This will greatly facilitate the recompliation of information from the records and will ensure that the specific research does not impose too heavy a burden on local administrative offices. Utility of the records and effectings of a given investigation will be much enhanced by the development of a system of linking information from records that ordinarily are kent entirely senarate from each other. Finally, the need to preserve privacy of the individual most be remembered, 6 tables, 19 references. (AEd)

#### C. STUDY DESIGN

#### 863. ANONYMOUS

Development and maintenance of a notional swentory of houstals and institutions. Vital and Heelth Statistics, Sens. 1, No. 3, 3-ab 65

Deserration of the Moster Faculty Insentory which is the universe for health record surveys. It includes all facilities or establishments which meet the criteria of the survey. The program of the Master Facility Index mountains a list of zomes and addresses and collects information on size and type of these facilities. This information is used for sampling purposes and also for statistics on the availability of health facilities in the U.S. 11 tables (Ed)

#### 864. ANONYMOUS

Environishors at methods in the study of cheene diseases Eleventh report of the WHO Expert Committee on Health Statistars hWO Techu Ren Set 365:1-31.67

Discussion of methods multiding disease registers, "record linkage", and "at risk" registers. Types of statistics schied to health routinely collected (demographic, economie, geological, geographical, nateorological, and agricultural) are described. Health hazards, and the value of population laboratories are noted. Recommendations are made, (Ed)

## 865. ANONYMOUS.

Health survey procedure. Vital and Health Statistics Series 1, No. 2, May 64.

> The Health Interview Survey is a continuous sampling and interviewing of the civilian, noninstitutional population for health and related information since July 1957, Emphasis is upon the social dimensions of notebidity: morbidity is measured along an axis for which the scale is the terms of the impact that the morbidity has arons the lives of the people concerned. Illustrations of the questionsuites and definitions of terms and concepts cumployed are given. Text tables. (Ed)

## 866. ANONYMOUS.

Interview responses on health insurance compared with inguisted strongs Vital and Health Statistics, Suries 2, No. 18, Aug 66.

A methodological study to measure the accuracy of information on health insurance coverage obtained in health interviews. The study plan provided for checking information obtained in a subsample of households in the Current Population Survey against records maintained by Insurance organizations, Findings and problens exconstered in the conduct of the study, and the characteristics of reconficheck studies in general are discussed, 8 tables, (AEd)

#### 867. ANONYMOUS. Origin, program, and operation of the U.S. National Health Servey.

Vital and Health Statistics, Spries 1, No. 1, Reprinted

A description of the developments leading to enactment of the National Health Survey Act, and a summary of

#### the policies, initial program, and operation of the survey. Text tables (AA)

868 ANONYMOUS Plan and initial program of the Hosith Exemination Survey.

Vital and Health Statistics, Strits 1, No. 4, Jul 65, The Health Examination Survey is a part of the program of the U.S. National Health Survey. The first eyels contests of a health examination of a probability sample of the adult, civilian, noninstrictional population of the U.S. Other cycles will follow dealink with different types of examinations of age groups. The statistical deagn, notturn of examination, and field geocedures are given Text tables, (AEd)

#### 869. ANONYMOUS.

Pinn, operation, and response results of a program of children's examinations. Visal and Health Statistics, Series 1, No. 5, Oct 67.

The second program of the National Health Evenmention Servey focused on factors related to growth and development of the nation's noninstitutionalized children, ages 6-11, obtained through physical and dental examinations and psychological tests. Describes development and operation of the survey including stems taken to reduce measurement own, and discusses factors related to response rates, 96% of the 7,417 children in the sample were examined. The lowest resonne at any location was 90%; at 2 locations it was 100%. 5 tables. (APa)

#### 870. ANONYMOUS Spending methods in morbidity surveys and public health investigations. Tenth report of the WHO Expert Committee on Health Statistics WHO Techn Ren Ser 336:1-31, 66.

Purposes and tures of sumpling techniques in morbidity surveyes and public health investigations are reviewed. and planning of large scale sample surveys is outlined in detail. Technical aspects of sample design are explained and the methods described. Some statistical theory has been developed for estimation of the likely menitoric of Stampling error. A principal consideration in choice of sample design is to cassive that a regulred necession is achieved at a minimum cost. Methods of studysis and evaluation and reporting of results of sample surveys are given. The application of automatic data processing systems and the monuni on sampling methods in morbidity serveys and public health investigations are described. (Ed)

#### 871. ANONYMOUS, The use of twins in epidemiological studies. Report of a WillO meeting of investigators Acta Genet Med (Royae) 15:111-28, Apr 66,

Report of WHO sneeting of Investigators on Methodclogy of Twin Studies held in Geneva, 1965, WHO mailed a questionasire to "twin researchers" throughout the world, asking for details of their studies, A wide souncy such as WHO which could act as a clearinghouse for information. 3 tables. 8 references. (AEd)

642. ABERNATHY, J.R., GREENBERG, B. G., DONNELLY, Application of discriminant functions in permutal death and surveyal Amer J Obstet Givec 95:860-7, 15 Jul 66.

872. ACHESON, E. D. Medical record linkage-the method and its applications. Roy Soc Health J 86:216-20, Jul-Aug 66.

A system of linked health records brings together selected biological data for a whole population from birth to death. A master file must be set up containing all information and carrying enough information to difforestate one person's record from another. The compatter and its applications are invaluable in this effort The general, as well as the specific, application of integrated systems of health records is given, and its value in medical research outlined. A national system of linked records neight be organized in there tiers. The basic unit would be the Area Health Information Center which would feed data into a Central National Library and Index. 2 figures. 15 references. (Ed)

ANDERSON, D. O. The property of physicians to a mailed questionnaire. A study in Ontario, Manitobs and British Columbia.

Censel Med Asr J 95:1301-6, 17 Dec 66. Acceptable and hera response rates are obtainable by mailed questionnaires to elicit clinical data from physicans if the investigator's concern is demonstrated by sending the request in successive weres to the diminishleg group of non-respondents. In the study described, a 90.6% response rate was produced by there waves a first call moduse, a registered re-mailing, and a registered remailing including a personal letter. A variation by province and month of death could not be explained fully, but no relationship between response and certain characteristics of replying physicians could be demonstrated. The generous cooperation of Canadian physicors in a bornflde research project is, therefore, striking, 1,585 questionnaires were sent; all ,but 149 were returned, 3 tables, 3 figures 12 references, (AEd)

ANDERSON, D. O., FERRIS, B. G., Jr., Davis, T. W. The Chillwack Resolvatory Survey, 1963: Part J. Methodology

Coved Med Ass J 92:899-905, 24 Apr. 65. To ascertain the prevalence of chronic respiratory disease in residents of a rural town and to determine the relative importance of tobacco smoking and air politition, 4 survey was conducted of 726 persons living at Chilliwook, British Columbia, in May and June, 1963. Over 95% of a random sample of adults were interviewed and performed simple tests of respiratory function. The sample was selected from a commercial census. Analysis of demographic characteristics of the sample indicated that the group, aged 25-74 years, was reasonably representative for dutailed study of chronic respiratory disca Tochniques and personnel were chosen to be as similar possible to those in a comparable varyey, 1961, in Berl New Hampshire 7 tables 1 figure. 20 reference

(AEd) 875. ASKANAS, Z., CZERWINSKA, S., LISZEWSKA, D.

A method for the selection of a supresentative sample i the investigation of the level of arterial pressure in la population groups

Pol Tyg Lek 20:830-4, 7 Jun 65. (POL) Description of a usefued of selecting representative sa ples for savestigation of distribution of arternal press. in large populations. The applied scheme of limit stratal chance selection from lists of names of t studied population ensured random selection of the sa pic, confirmed by means of a test of series. Also, analy of purposefulness of annual stratification of the popul tion concluded that stratification according to 5-ye periods is quite satisfactory for the purpose of an e

demiological study. 4 tables. 18 references. (AEd) 876. BALAMUTH, E. Health acterview responses compared with meda-

records Vital and Health Statistics. Stries 2, No. 7, Jul 65. A methodological study largely concerned with relate ship between information from 2 sources on chronic ness in a defined population. (1) reports from physicia of the Health Insurance Plan of Greater New York patients who sought care during a 12-month period, a (2) reports, at the end of this period, of interviews those nationts and their families by the National Heal Survey. Comparison is concerned with whether con-

tions diagnosed by physicians are reported by respor ents on household interview. 32 tables. (AEd) 877. BIRNBAUM, Z. W. and SIRKEN, M. G. Design of sample surveys to estimate the providence rare diseases: thror, unbiased estimates. Vitel and Health Statistics, Series 2, No. 11, Oct 65.

> A stratified random sample for a survey of media sources to estimate prevalence of discussed crozs of rare disease in the population. Medical sources are stra fied by enteria, such at specialty of physician and serve and size of hospital, presumed to be related to probabili of the source treating patients with the particul dimage. An unblasted estimate of the number of the posed cases based on nationts reported by a sample modical sources presents a problem since it is not uncomon for nations with rare discusses to have been treat by more than one revolved source. Three formules of prosented for deriving unbiased estimates under these e cumstances. Text tubles. (AEd)

BJERKEDAL, T. Principles and sources of failure in retrespective stud on the etiology of disease. T North Large foren \$6:841-6. 1 Jun 66. (NOR)

A brief discussion of the main principles and somoes error in retrospective investigations is presented. Proicons of interpretation of results of such investigation are discussed in some detail. It is stressed that o should, whonever possible, aim at a strict experiment design in epidensological investigations in gener 3 tubles. 9 references. (AA)

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 BLACKBURN, H., PARLIN, R. W. Anteredents of disease. Insurance mortality experience. Ann NY Acrol Sc. 134 965-1017, 28 Lcb 66.

A review of findings and a bibliography of intertality investigations in invited populations from the liberalities in English Advisorages of using mainted persons to their mortality architect in mechanisms are proposed in the control of the contr

880. BORSKY, P. N., FELDMAN, J. J.
Measurement of personal health expensitions
Vital and Health Statistics Series 2, No. 2, Jun 63.
Development and testing of a benf quasi-insanire on
family medical and detail expensitions for use in the
Health Interview Survey, 7 tables. (Ad.)

BROWN, A. M., ALTMAN, I., THOMPSON, D. J.
 Participation of hospitals as the pilot study of the hospital ducking survey.
 Vital and Health Statistics. Series 2, No. 19, Oct 64.
 A study, In 1964, of featbolify of a Bospital Duckstep.

A study in 1954, of feasibility of a licepild Deckings, save, conclused that such a mercy user particularly, save conclused that such a mercy user particularly, and vould be well received by longitable in the sample. The survey consumered in 1956 as a piles teady which the attention of contract the sample of the survey contraction of the sample of the sample of the sample threaks, Only 2 of the 84 hospitals saked to participate from 154 is unlikeful convertable from the remaining

882. BRYANT, E., BAIRD, J. T., JR.
Cooperation in health extinization surveys,
Vital and Health Statistics. Series 2, No. 9, Jul 65.

8. Tables, (AEd)

A major part of the U.S. Notional Health Survey program is the collection of health data and related facts in a continuous household interview survey. The design and methodology of a survey of attitudes about cooperation in an examination survey are described and a susumary of findings prevented, 71% of the noninstitutional population, sees 18 and own, may be willing to have a health examination if time and pince are convenient. Respondents in the household interview were more refrictant to commit others than themselves to a health expression. Favorable response declined with increasing population size. Persons in the Northeast and persons over 45, aspecially over 65, were less william to concernte. Extrame unner and lower income groups showed less egogeration than middle income groups, Nonwhite persons indicated much more opoperation than did whotes, 19 tables, (Ed)

CANNELL, C. F., FOWLER, F.
 Compution of hospitalization reporting in three surrey

Compution of hospitalization reporting in three sur procedures. Vital and Health Statistics, Series 2, No. 8, Jul 65.

Study of illernative survey methods for collection of hospitalization data from household respondents, Precedure A., the control, med the standard health interview questionance and procedures. Procedure it was a revived interview schedule which was followed by a small form in which any information should note that sixes that had

been controlled in the interrieur fortical precided the lumin was to its recorded by the respondent. Procident C claimated queretions about the optical conference in the controlled controlled to the controlled consistence of the controlled controlled

884. CEDERLOF, R.
Regiotes of turins. Preliminary report.

Nard Hrg T 45:63-70, 64.

A prelummary account of the setting up of a reporter of all somewar tenis how run 80 voctors, 1886-1925, and silve. To date 58% of 41,000 pairs been daring the period lawe been tacced; of these, both truits are still alive in over 13,000 pairs. Reported are preliminary results with respect to movilety ability and urban overall section of the section of the section of the section of the region of the section of the section of the section of the region of the section o

 CHASP, G., KLAUBER, M. R.
 A graph of sample sizes for setrospective studies. Aunor J Public Health 55: 1993-6. Doc 65.

A guide for rapid evilwater of sample suce for entopactive studies. In introoperitie similars, a gaopy selfdictions and a group of well contents are cannined for the experiment of the studies of the studies of the sample of a later of the studies of the studies of the sample studies of the studies of the sample studies of all bases that may color entrooperities studies can be conquested with those of prospective studies can be originated with those of prospective studies, a feet sample agreement of the studies of the sample studies of the agreement of the studies of the sample studies of the extension of the sample studies of the sample studies of determining subquarte sample sizes for a set of prosputions as a refrequency sample studies. If types, or as a refrequency sample studies. If types, or

886. FOX, J. P., ELVEBACK, L. R., SPIGLAND, I. The virus watch program: A continuing surveillure of wird infections are proposed on the work facilities. J. Overall plan, methods of collecting and insufficie incomnishes and a summary report of specimens collected and discusse observed.

Amer J Epidem 83:389-412, May 66. The Virus Watch (VW) consisted of continuous serveit. lance of family groups for infection with viruses recoverable in cell cultures, Index persons le carà family contributed respiratory and focal specimens for virus isolotion on a regular bi-weekly schedule. VW families reguled on Shelter Island (SHI), or in Stovewant Town (ST) Surveillance began In both areas in 1961 and continued through 1963 on STII and 1965 to ST. VW family mean bers recorded 4,262 allowers of possibly viral nature (common childhood diseases excluded) for an average of 3.8 per person year. Special problems encountered and some of the solutions have been described. These lackade recruitment and setalning of families without tageible reward, collection of repeated adequate blood specisucces, and roleting the infection and fluers experience of the VW fumilies to that of the larger communities in which they resided. 8 tables, 4 figures, 51 referencer. (AEd)

887. FRIEDMAN, G., KANNEL, W. B., DAWBER, T. R. An evaluation of followup methods in the Framingham Heart Study Amer J.Pub Health 57, 1015-24, Jun 67,

> A 10-year followup of a sample of \$,127 adults in Fransingliam, Massachusetts, since 1949 to evaluate the sources of data used to diagnose commany heart disease (CHD) Brennal examinations of the subjects provided dragnoves for 3/4 of the cases of CHD, and 1/2 would have been musted without these examinations. Hospital records and death certificates evaggerated make preformnance of cases. Although each source gives a distorted view of the clinical spectrum of the illness, the association of CHD with age, blodd pressure, scrum cholesterol, relative weight, and equirette smoking, using the cases from each source, closely resembled that found when all cases were studied. 5 tables 7 references. (AEd)

188. FRIEDMAN, G.D., KANNEL, W. B., DAWBER, T. R. Companion of prevalence, case bistory and incidence data in assessing the potency of risk factors in opening boart disease. Amer J Epidem 83:366-78, Mrz 66.

Although more efficient than longitudinal studies, provalonco and case fustory studies have been considered infenor because of biases such as under-expectant of cases of short dention. Estenates of relative risk assocosted with 4 established factors of risk in occupary beart discore (male sex, hypertension, ago, and serum cholesterol level) were derived from prevulence and ruse his tory studies on the Let and 6th beaunal examination of the Framingham Heart Study and compared with the estimates of risk from the 10-year incidence study. Good agreement among methods was noted for all except sorum cholesterol which failed to show the expected verum gradient in prevalence studies. Reasons for this are discussed. 6 tables, 2 figures, 10 references, (AEd)

HR9. GORDON, T Three views of hypertension and heart discuse

Vital and Health Statistics, Seems 2, No. 22, May 67. Commarison between disgnoses of hypertention and acort discuss made by the Health Experination Survey and those reported on a self-administered medical bertory and by the personal physician during 1960-62. The examination yielded more cases of heart discore and hypertension than the history or the physician reports Hypertension symptoms reported on the medical history were not associated with the subsequent hyportonium dwgrovu on examination, Reports of heart disease and hypertension by a personal physician, while more consurvative than the diagnoses by the survey examination, were likely to be corroborated by it 29 tables. (AEd)

890. GORDON, T., MILLER, H. W. Cycle 1 of the Health Examination Survey: sample and response, U.S., 1960-1962, Vital and Hesith Statutics, Somes 11, No. 1, Apr 64.

> The first of a suries of publications of exsults of the "first cycle" of the Health Examination Survey describing samplug procedures and estimating techniques employed, smilarity between the sample and the universe, and ampact of nonresponse, 8 tables. (AEd)

891. HESS, L, SRIKANTAN, K. S. Some aspects of the probability sampling technique controlled selection Health Serv Rev 1 8-52. Summer 66.

Data for the 1961 universe of nonfederal, short to general methcal hospitals in the U.S. are used to illustra application of estimation and variance formulas for co trolled selection, the probability sampling techniq developed by Goodman and Kish, Some advantages this sompline technoous are discussed and a controll selection model is described. Comparisons are rebetween the variance of multiple stratification and the of controlled selection. The report is believed to degri the first experience in programming controlled selects for an electrome computer. Steps in the preparate work, whether for the manual or for the compaoperation, are outlined. Some suggestions for continu program developments are made Table, 24 refences. (AEd)

95. HINKLE, L. E., JR. The use of a large industrial population to study t offects of social and behavioral factors on coronary has

Caucey Res 25 1330-5, Sep 65.

distant. Amer. J. Public Houlth 56: 1470-5. Spn 66.

892. LILIENPELD, A.M. Formal discussion of: genetic factors in the etiology concert an endemologic view. Gunetic factors in the ottology of cancer from an e-

demologic viewpoint are discussed. The two princip approaches have been family and twin studies. Providis a summary of results of studies of familial aggregate of breast concer and percent of hing cancer deat among relatives. Data are shown from a survey of to studies on canoer, giving the concordance for cancer twin purs and the occurrence of cancer in the twin seri (monorygous, same sex, and opposite sex), During : cent years, another dimension has been added-finding of chromosomal aberrations as a cause of duease Ty different types of biologic models must be considered determining the role of penetic factors, as in the case mongolism. A tri-state study of leukemia is describe The epidemiologist, in studying human cancer, is facwith the problem, not only of attempting to auess t relative role of environment and genes in the classic model, but also of attempting to distinguish between

these two models. 6 tables. 24 references. (Ed) 135 LIPSCOMB W. B. Survey measurements of the providence of alcoholism review of five surveys. Arch Gen Perehan 15:455-61, Nov 66.

MADOW, W. G. Interview tists on chromic conditions compared wi

information derived from intelligal records. Vital and Heelth Statistics Series 2, No. 23, May 67. A study to interure accuracy and completeness

reporting chronic conditions in a health interview. T sample was from the Karser Foundation Health Pir Medical records were compared with responses in inteviews. Findings indicate that respondents in a heal interview tend to report conditions that are wwo costly, or equire treatment Differences in reporting of conditions, as the interview were swocased with difcrices in communication between physicas and patent, humber and recency of includi visets were faceous closely related to reporting of conditions. Recent impact of a condition with a sean, remotional steers or dispoin bed laid a geodes effect on experimg time did the userpostancial with a condition. (ACI)

#### MCCARROLL, J., CASSELL, E. J., INGRAM, W. Health and the urban environment Air politation and family illnews. J. Design for Mardy. Arch Environ Houth (Chicago) 10: 357-63, Fub 65

A Souppindistal satisfy of contrast stay designs to associated the existence placeton clusters and the evidence for the existence placeton clusters and the evidence of the existence of the exis

## MCDOWELL, A. J. U.S. National Health Examination Survey. Pub Health Rep 80:941-8, Nov 65.

The National Health Surrey, moler the ampiens of the National Content for Health Satisface, reflected that by direct physical examination of a sample population Strengths of the surrey include use of probability simple or a neterowise examination program, high extreme various specialists in the Health Literations are exclused of institutionalizand persons, too usuall a sample, a contract of the contract of the sample o

## MODAN, B. Some gothodological aspects of a retrospective following study. Aug. J. England 32, 297-304. Nov 65.

Description of following procedures in a washy of 1,200 intents with polycythems originally seen as 7 motions content in different parts of the country, some as long ago as 25 years. The ricks of bast due to incomplete followang are evaluated, and determinations of the optimized point for discontinuing tracing efforts is dissipated. In this 2 meters of the content of the content of the polycythem of the p

#### MULFORD, II A. Identifying problem drinkers in a household health surver.

tables. (AEd)

Vital and Health Statistics. Series 2, No. 16, May 66.

Evaluation of interview techniques designed to alcoholy problem drinkers in a household beatily survey and discussion of various measurement scales. Also, evaluation of a major field test, its methods, and coulds. 13

 O'SULLIVAN, J. B., MCDONALD, G. W., Decrete factors in designing the suithery study of choose divoke. Pub Health Rev. 81, 891-7, Oct. 66.

> Biological and technical variability are sources of offer unrecognized variation in results of epidemiological studies at change disease. The study of disbetes, arthrites, and nout in Studbury Mass, as used to diestrate some of the ways that such problems can be landled. These include correct of: (a) use of compreheng measuresuch as annibiation of diagnostic tests to a prevelocited random sample of the population is addition to those who sertened positive or suspect on mittal testing, (b) adoption of enalty control procedures allowing measurement of technical variations with respect to both accuracy and reproducibility over the period of the study, and (c) resesting of a random sample of persons after a short unterval in order to gauge biologic variability. Re-extraoration over longer intervals will provide annual incidence rates. The inter development of overt descripe will allow subdistion of unitial diagnostic criteria and assessment of the degree to which fluctuating bioclientical values affect interpretation. 3 tables. 27 references. (AFd)

#### 899. PEARL, R. B., LEVINE, D. B., GERSON, C. J. Smilles of divease among neigrants and milive populations in Great Britain, Norway, and the United States, D. Conduct of field work in the United States. III. Nat Confer Intl. Moscor 19:301-20, Jun 66.

The work of the U.S. Barratt of the Consts is described m study planning and design and collection of data on demographic variables and symptoms of cardiorespiratory dreese from samples of British-born, Norwigianborn, and native-born residents of the U.S. The study samples were drawn from the 1960 Census of Population (British and Norwegians) and from a national sample (E.S.-horn) previously interviewed by the National Health Survey. Mad query was carried out in 2 streets. returns were received from 90% of the clighte populatson. The study design provided for personal interviews of subsamples of nonrespondents. Names and addresses of sibhugs loving in Great British and Norway were obtained and sent to cooperating conters in those countries for use at smaller meil queries. 8 tables. 1 figure 2 references. 2 appendices, (AA)

## 900. ROUQUETTE, C.

Canvasung in reochality narveys Buil Inst Net Sente 21:409-16, Mar-Apr 66. (FR) A discussion of the use of sampling techniques in " field of bealth surveys, Best results are obtained of the health services collaborate with specialists in tsurveys. The development of a large monber of bidity inquiries will permit health services to on their own sampling surveys. Inquiries are expensive require participation of many statisticions and crodologists, inquires on morbidity or public licelth oughbe devised so have other applications besides a same enumeration of diseases. They ought to be adapted to the structure of the country. Such inquiries constitute only one of the aspects of epidemiology, so it is not desarible to multiply them excessively at the expense of other research. (AEd)

901 SCHORK, M., A., RFMINGTON, R. D. The determination of sample size in treatment-control companions for chronic thesase studies in which deoping the control of the control of the control of the J Chronic Dir 20 233-9, Apr 67.

A common feature of many newtilgatons of chromehocave is the comparison of 2 prospa-freatment and control—in whole characteristics of one to both of the acquired regime, from namediscence or disposal. This control is a superior of the comparison of the control comparison, a relatively long period of observation, and an outcome variable consisting of only 2 states [Language and the control is a comparison of the control comparison, a relatively long period of observations. [Language and many control is a control in the contr

## St AL, S. C. Integrated general health survey in India. 1910 Pub Health Pag 27 163-80, 65

A ever and enlarged general health survey in India for a passe must be shown that the same and a passe must, bodope and socioeconomic conditions, hibotastero-currientoms with reference to marketic assessment, married women; infinite, pre-school and school children, prepared women, persons with unfinished dealers, prepared women, persons with unfinished dealers, prepared women, persons with unfinished dealers, because of the prepared women, persons with unfinished dealers, because the prepared with the person of the

SHAPIRO, S., WEINBLATT, E., DENSEN, P. M.
Longitudinal vs cross-scetional approaches in studying
proportionic factors in occuracy beam disease.

J Chron Dis 19:935-45, Aug 66, His longitudinal and cross-sectional approaches have been defined in mutually exclusive terms. The longtudinal approach provides for repositive observations on a population group, treated as a sobort, to clarify the relationship between time and changes in a characteristic of the cohort and to link changes in one period with those in another. To expende on this quality, difficult nothedological problems and a long delay in obtaining esalts often are accepted. An alternative is the crosswettonal approach, which depends on observations made at a particular point in time and is concerned with variability at that point in time. Selection of the crosssectional approach as an afternative to the longitudinal may treate commonises that an sometimes apportant sometimes trivial, in the scope of information to be obtained. The nature of these consecurases has been explored with data collected on the seturn to work by men over on 18-month nerved following their first attack of myocardial infanction. 4 tables. 2 figures. 4 references. (AEd)

#### 34 SIRKEN, M. G. Federal survey collecting data on discharged patients. Hospitals 40 64-9, 1 Aug 66.

Because there was no nanonal system to produce, on a contrasting basis, U.S. statistics on patients in duct-team hospitals, the Hospital Dackage Survey are cented. The objectives, content, and procedures of the survey are described, Although the scope will necessarily be limited initially, the survey will gradually be broadened to serve map purposes. (Ed)

SIRKEN, M. G.
 Hospital utilization in the last year of life.
 Pead and Health Statistics. Series 2. No. 10, Jul 65.

Results of research project to obtain estimates of boapital stillistation by decedents. The U.S. National Health Survey covers only experience of persons fiving at the time that household interview are conducted, Consequency, to obtain estimates of total bookidal subsystem, it is necessary to supplement the hoopital data collected in the health interview survey with similar data for decedents. Test tables (AA).

 SKIPPER, J. K., JR., ELLISON, M. D.
 Personal contact as a technique for inecesting questionnaire returns from hospitalized patients after discharge. J Health Hum Belson 7, 211-4, Fall 66.

A mager dend-stratego of using mail questionsomes to delatin research data in the providuity of a very four rate of estimate representations of a very four rate of a study with representation and a very four rate of a study with responsible, before questionative were midel, was an effective method for mercaning study was an effective method for mercaning study was an effective method for mercaning study and the responsibility of the study of the respective study becomes a study of the study of the research of the researc

907. STALLONES, R. A.
Prospective condemnologic studies of combrovascular

disease.
Public Health Monogr 76: 51-5, 66.

Prospective and retrospective studies each have advantages and disadvantages. Retrospective studies may be used to provide a relatively quick test of a hypothesis of a short inquiry into a situation marked by especially high or low rock of illness but, ordinanty, a prospective study will be desired to confirm and quantitate the findings more precisely. The low risk of corebroveycular disease in middle age, the difficulty of ascertaining cases and diagpasing there accurately, and the lack of well founded etiologic theories all place restrictions on the use of proxpoetive methods of study of this condition. Nevertheless. situations of unusual promise for study can be identified and, for those, prospective studies should be proposed. Of special importance is the complex interrelation between cerebrovsscular diseases, coronary heart diseases, and hypertensive diseases. Studies designed to exploit this circumstance are greatly needed. I table. chart. 8 references. (AA)

 SURVEY RESEARCH CENTER, INSTITUTE FOR SOCIAL RESEARCH, THE UNIVERSITY OF MICHI-GAN.

GAN.
Reporting of hospitalization in the Health Interview
Survey.

Vital and Health Statistics. Series 2, No. 6, Jul 65.

Several hypotheses about factors leading to underreporting of boogstal episodes in household interviews are: (1) The 12-month period of reference is subtray and the

ing of hospital episodes in household interviews are: (1) The 12-month period or federace is splittury and the person may not ensembler his hospitalization experience. (2) The greates the time interview between hospitalization and interview, the less accurate the response, (3) Some hospital splitters are the period to be suppressed because they may place the respondent in an unflavorabile. (3) Hospitalization splitters are the proposed or the compressed because they may place the respondent in an unflavorabile. (3) Hospitalization and interview may be a suppressed the proposed of the

result is underreporting. The study deepn is outlined; abstracting of hospital records and interview reports, time references, type of respondent, and sample (1,505 persons) are described. Text tables. (AE4)

 Tibblin, G.
 A population study of 50-year-old men. An unityes of the non-participation group. Acta Med Stand 173 4539, Oct 65.

A combined health examination and population study was carried out at Shighers's hought, Cottlemburg, Sweden, in 1963, [deterthed in Acin Med Sound 177 739, 1965.). The subject was 973 500-200 min; 118 referred to the study of the subject was 973 500-200 min; 118 referred to the subject was 973 500-200 min; 118 referred to the subject was 1970 for the subject was 1970

non-participation group. 9 tables. 2 references. (AA)

 VACEK, M.
 On the problem of the diagnosis in the statistical determination of morbidity. Cast Zahar 13:333-7, Aug 65. (CZ)

> In the planning of statustical morbidity survey, the application of standard disposed territors in of finalmental importances. The derimately placed upon the structivity and specificity of disposation included survey from those in clinical work, and should on the objectives of the survey. Proceedings of more extensive material method makes the processing of more extensive material survey may be ablanced metaolity is such a vary as to obtain an optimism solution of the given problem. 2 figures. (AED)

 WATTS, D. D., STRAUGIN, V. C. Screening for chronic diseases in a low-income group. *Med Ann D.C.* 34:166-9, Apr 65.

A goolest at Howard University College of Medicine concorning dilay in stoking medical care. Attention was contered on low income Negroes in the Second Product of Washington, D.C. Features of the mogram are: (1) doorto-door interviews, all dwelling units of the area, (2) detailed social history by a professional worker leading to referral to social and walfare agencies, (3) complete physical examination by a physician, (4) close followup on the patient. The medical aspect of this penaram is concerned refractly with party detection of chronic diseases and referral of nationts to accompelate aconeics or private physicians. It has not been too difficult to encourage the majority of patients to seek medical care. once individual interest has been shown in their medical as well as social problems, and a record of over 75% followup may be considered encouraging. (Ed)

WILBAR, C. L., JR.
 Measuring chronic illness morbidity.
 Arch Embow Health (Chicago) 14 279-82, Feb 67

In the U.S., chronic discuses are reasonable for 7 out of 10 featling causes of death, accounting for approximately 76% of all deaths 5 methods for recasuring the extent of chronic diseases are described and evaluated: (1) muss screening by laboratory tests, (2) door-to-door health interview surveys, (3) hospital case records, (4) reporting of cases by peacticing physicians. (5) large scale estimates obtained from other than professional sources to a police records for alcoholum). Laboratory records when available are valuable, especially for early case finding. Surveys provide data on the conditions which seem huportant to the person being interviewed. Hospital records are apt to be the most accurate but vary widely and usually provide information only on the more senious types of illnesses. Physicians do not report all chromediscress unless they are of a notifiable type. Nonorofessional sources may not be the most accurate. 8 refer-

ences. (AEd)

913. WGOSLFY, J. C.

Oxe-day conn't yrelds statewide statestical peofise of hospital patients, Hospitals 39:59-62, 16 Jan 65. A 1-day census study to gather data on all patients in short-torus peneral hospitals on Michigan (November 15,

1962). Studiese were developed on ago, sex, race, source of psyment, diagnosis, transport distance to hospital, and olikor guidast facts. Data on champerresides of vanous gatient groups are given. 5 tables. (AEd)

 WUNDERLICH, G. S. Molliods and response obstactoristics, National Natellty Survey, U.S., 1963.
 Visi and Health Statistics, Series 22, No. 3, Sep 66.

Methods and procedures of 1963 National Natality Survey and selected findings on response and completeness of the data. The survey was to provide national estimates of the amount and type of exposure to ionizing infustion experienced by women during pregnancy. Information was also obtained on selected secloreconemic charactoristics of families in which births occurred. About 4,100 birth records were sampled and additional information was obtained by mail survey of the mother, the hospital where the child was born, the attending plays clan, and other physicisms and dentists who may have treated the reather during proportion. About \$6% of the mothers responded. The response rate was lower for nonwhite mothers and mothers of lower income and education. The response rate for physicians, dentists, and medical facilities was over 90%. Response from sources ougstloned about white mothers was higher than from spurces reporting about nonwhite mothers. It tables. (AEd)

#### D. OTHER

## 915. ANONYMOUS

Computer simulation of hospital discharges
Vital and Health Statistics Stress 2, No. 13, Feb 66.

A study on competer mero-simulation of discharges from short-by-loopedit, and on the associated minumerous control of the cont

the previous year. Simulated interness data with and

utilional response error were tabulated, 12 as-

916 ANONYMOUS
Public health conference on records and statistics.

Pah freetin Rep 79:991-6, Nov 64.
Highlights of the 10th binnini meeting of the Public Realth Conference on Records and Statistics, lead Jaire 15-19, 1964, in Washington, D.C., glong suggestions and discussion of ways to advance the country's stal and health standards.

917 ANONYMOUS

Report of the U.S. delegation to the International Conference for the eighth revision of the International Classfication of Diseases. Psed and Health Statistics Series 4, No. 6, Sep 66.

In preparing fee the IR Excess of the Interestings of Lawrington of Discovering 10 to 10 t

#### ANONYMOUS, The occurrey and comparability of death statistics. Who Cheer 21:11.7. Inn 67.

Statics in 6 Barrepotes countries, reveal that many date responses covers or extribitions of death and is subseppetation of death certificates by codes. The use of the 8th revision of the International Chastification of Diseases, injuries, and Causes of Death is expected to reduce the analysis of the Chastification of Diseases, analysis of the Chastification of the Chastification of Diseases, analysis of the Chastification of the Chastification of the greater uniformity between countries in the procedures as statistical are to be only comparable. 5 4664; (AED)  ANONYMOUS.
 The new death certificates Current observations with reference to the selectation of the new forms. FRA Similarity 4:69-72, Jun 66, (DAN)

No English summary.

 ALDERSON, M. R., MEADE, T. W. Acceptey of diagnosis on death certificates compared with that in hospital records Birt. Proc. Soc. Med. 21: 22-9. Jun. 67

> The "principal condition treated" in hospital, as stated on the summery sheet of in-nations notes, and the "enderlying cause of death" on the death certificate were compared for 1,216 patients dying in 30 hospitals of the Oxford record linkage study area in 1962. In 39% of the cases, the two disgnoses differed to such an extent that they had to be coded to different proups of Last It of the International Statistical Classification of Diseases, A. Lin 12 random sample of the 1,216 cases was drawn and the main clinical documents were examined. The original codes for the hospital diagnosis and death certificate differed in 40% of the 105 cissis. The discrepancies are analyzed and discussed, Since about half of all deaths occur in hospitals, a national level of orne in death certificates comparable to that found in this study would senously reduce the value of the Register General's france for causes of douth 7 tables 14 referenecs (AEd)

- ANDERSON, U. M., JENSS, R., MOSHER, W. E. High-risk groups—influstion and identification. New Eng. J. Med. 273, 308-13, 5. Aug. 65.
- BRUSNLINSKAIA, L. A., MAZUR, M. M.
   On methods of dupth investigation of the percent morbidity of the population.

   Zitheroother Rost FIED 9:22-4, Sep. 65. (RUS)

No English summary.

922. CHIANG, C. L.
An under of brain. Manhamatical readels.

to death. 4 tables. (Ed)

Priod and Health Statistics, Series 2, No. 3, May 65.
Mathematical models of frequency and duration of illness episides. Companion of expected frequency of illness generated by the model with observed frequencies obtained from a declares survey. An indica of Intalli is proposed, using measures of the arreage duration of intensity in the proposed, using measures of the arreage duration of intensity in the proposed, using measures of the arreage duration of intensity in the proposed, using measures of the arreage duration of intensity in the proposed.

CHIANG, C. L.
 Variance and covariance of life table functions estimated from a variety of deaths.

Formal and Teledit Statistics. Scres 2, No. 20, Mas 67.

Formalis fee the variance and covariance of functions of savinged and complete the tables, based on a simple of savinged and complete the tables, based on a simple of savingtion of complete the tables functions, as any satisfaction of the complete tables of the control of the co

component of variation must be assessed in making stapstical inforence revirding survival expension of a population as determined in such a table In the formulas for the variance and covariance of estimates of the probability of dying, the servival rate, and the expectation of life, both the random variation and the sampling same tion are taken into account. Life tables (AA)

924. CIUCA, A., TUNOVSKI, V A new method for the estimation of the "Baelogical Age" by mass surveys Ahmchen Hed Wich 107 1507-13, 30 Jul 65. (GLR) The method for the determination of the biological age in medico-social wnal examinations consists of a number of tests which, based on complex medical study, demonstrate the qualitative (merphologico-functional) changes of troug, organs, and ofgane-systems. Age entena med were later voored according to importance of individual tests within the general aging process. The method may be used in different countries, insuruch as the biological age expressed in figures represents comparative data on

the aging rhythm of the population of the appropriate treas. 2 (ables. (AA) 925. BOLL, R. COOK, P. Summarizing indices for comparison of caucer incidence Int J Cancer 2: 269-79, 15 May 67 No summary index can replace the information provided by ago-sex-specific camer mendence rates, However, for certain cancer sites, transcated standardized meldence rates over restricted age ranges can be unclul. Other

stimularchized undices are discussed for indicating the rate at which cancer incidence increases with nor. 6 tobles. 2 figures. 7 references. (AEd) 329. DORN. H. I/ Underlying and contributory causes of death. Nat Cancer hist Manage 19,421-30, Jan 66.

CHKITLING A IN The meldence of arterioselerotic heart disease, A method to estimate merbidity. Nederf T Geneesk 111 929-32, 20 May 67. (DUT)

926. CHEFORD A. I. An epulemiological stody of orectrosystemas disease Amer J Public Health 56-452-61, Mar 66. Selected personal, clinical, and family characteristics of patients who had a stroke uree compared with a recunof control patients. Cases were drawn from Baltimore residents, aged 45-69 years, horastalized at the Montebello State Hospital, 1961-62. Data are by age, sex. clinical characteristics, socioeconomic status, foreign born, employment history, mantal status, and pregnancies. Efectious are not definite but suggest more precise

hypotheses for future study, 16 tables 17 refer-

927. GRABOVSKII, P. P. Complex marbidity indexes of the acquisition. Vrach Delo 7:124-7, Jul 65, (RUS)

ences. (Ed)

· No English summary.

Orthodontic areatment priority index Ustel and Health Stenutics Sens 2, No. 25, Dec 67 Research into the means of obsessively assessme the degree of handscap due to malorclasson in tenns of a Treatment Priority Index A sudgment of seventy of malorchuson for each of 375 12-year old children from 3 Ontario communities was obtained through direct examericans by orthodontic specialists. Using multiple regression methods, formulas were developed for extrastsing the judgment scores from the objective measurements Correlation between the calculated score and the actual element undgement was comparable to that between two sets of chracal sudgments. The index may be metal in epidemiological studies, as well as in menal seronning of populations to determine need for treatment white providing a rough description of the case type 16 igbles. (AEd)

928 GRAINGER, R. VI.

350. GURALNICK.L. Some problems in the use of multiple causes of death. J Chrome Drs 19:979-90. Sen 66

678 GURALNICK, L. WINTER, E. D.

Brit Med J 5484:303-6, 12 Feb 66

enres (ATA)

A note on colsort infant mortality rates Pub Health Rep 80:692-4, Aug 65 929 HENS, G. Detection of effects of ionizing radiation by population

Development and use of storms enemy has led to ar increase in mun's exposure to sentant radiation. In order to detect radiation effects by a population study, the population must be large enough for satistion effects to be statistically significant. Studies were made of course ray effects and occupational exposure to indiation in areas of Beard, Ceston, and India. An adequate population study would revolve setting up a satisfactory control population and assessing mean armual doves induced by

harkoround radiation, 2 tables 1 figure, 18 refer-778. HENDERSON, M., REINKE, W. A. Analytical bias in studies of programmy outcome Amer J Obstet Grisec 96 735-40, 1 Nov 66 930. HEWITT, D., SANDERS, B., STEWART, A Oxford survey of childhood concers Progress record, IV.

reliability of data reported by case and control mothers Monthly Bull Moriet Health (London) 25.80-5. Apr 66. Two groups of mothers were introvered in 1964: these whose children shot of career, and the controls those whose children were after. The overtion of whether after of children with carty cancer have a high mek of develoning cancer was checked from statements of mothers. General Register Office records, and official reports. Most of the mothers' clams about wh concer deaths corresponded with the records. Assertal records on years revealing earlier and repeated exposure of the feers in the case group suggested that fetal irradiation increased the risk of childhood cancer. No general tendency was observed for mothers of live children to report a smaller proportion of prenatal events than the case mothers, 2 tables 7 feverences, (E6)

931 HUBBARD M R . ACHESON F. D. Notification of death occurring after discharge from hos-

Brit Hed J 3 612-3, 2 Sep 67

Ouly 1/3 of the deaths occurring within a 2-year period after discharge from a group of hospitals had been recorded in the bosintal notes of the nationts oncerned. Of those occurring within I month of discharge, 1/2 had been recorded. The massible ments of summing the nusuma data are discussed from the administrative and chrocal numes of view. I table 3 references (AA)

932. HUNTABLE, D. L. Viral statistics and in development namons Anny J Pub Health 57 504-8, Mar 67.

> The development of a vital statistics program in Kenya is described. Some factors to be considered in assisting such development are discussed. (Ed)

110. KAHN, H. A., AND DAWBER, T. R. The development of corquary heart disease in relation to sequential biconial measures of cholesterol in the framtraftem study J Chron. Day 19 611-20. May 66.

933. KENLINE, P. A., CONLEE, C. J.

Nashrillo air pollution and health study. Pub Hoolth Ren 82 17-29, Jun 67.

An extensive air collation and health study in Nesbedie. Tenn, to investigate possible relations between air pollution and health and to outher intermetion on a reselver of medical, engacering and metoceological phases of air pollution. Bronchial milima, respiratory diseases, and anthracosos, morbidity and mortifity of resurratory discross, and mortality of cardrovarentar disease were studsed in relation to sir pollution. A bibliography of papers on the Nashville studies is included. 28 references. (AEd)

934. KEYFFTZ N

3. Sampling variance of attendardized mortality rates. Hym Brot 38 309-17, Sep 66.

The office of sampling variance on the crude and standardized death rates need to be determined when sample surveys are carried out such as in countries developing a vital ensistration system or risessives to obtain suredemental efformation. Assumptions underlying the deviction of vansaces are discussed including the malependence and relative precision of population and deaths. Applications are snade, 3 tables 2 references, (Ed)

935. KHEIFETS, L. B., LIVSHITS, V M. On the use of certain methods for statistical assessment of a unit mortulaty rate.

Zh Mikrobiol 42:86-91; Sep 65. (RUS) No English summary.

141. MADAR, J

Statistics and enidoutology of atheroscierosis, Cox Lek Cest 105:68-74, 21 Jan 66, (SLVK)

936. MOREYAMA I N The eighth remains of the International Classification of Ames J Pub Health 56 1277-80. Aue 66.

> The eighth Revision of the International Classification of Discusors will go into effoct on Jan 1, 1968 for the commission of national morbidity and mortality statistics. Changes made to the present revision and certain problems are described and discussed. 5 references, (Ed)

937. MORIYAMA, I. N Uses of vital records for epidemiological research. J Chion Do: 17:889-97. Oct 64.

> Past uses of vital records for epidemiological research are traced. Their potential uses are just now being tapped in the form of record linkage systems. The potentials of vital records have not yet been fully exploited in studies of determinants of disease. References. (Ed)

938. MORIYAMA, I. M. Vital and health statistics of the future.

Milhank Mem Fund Quart 44 318-26, Jul 66, The present and future status of vital and health statisties are discussed. Stenificant clumpes in the quality and coverage of these data are foreseen through, (1) nationunde statistics on morriage and divorce, (2) tabulations of multiple diagnoses of cause of death, (3) increasing use of record linkage and followback mouries. (4) more sophisticated uses of electronic computers, (5) exprinsion of health surveys providing information on morbidity. and (6) place to create a new body of health data relating to the family as a unit. (Ed)

939. MORIYAMA, I. M., DAWBER, T. R., KANNEL, W. B. Evaluation of diagnostic information supporting inchest certification of deaths from cardiovascular disease. Net Cover Inst Movegr 19:405-19, Jun 66.

> Information on discussic methods and findings, on which medical certifications of causes of death were toted, was secured by questionners to modest certifiers and others with knowledge of a national sample of cardiovascular-renal disease deaths which occurred in 1960. The returns were reserved and determinations made as to whether the assigned cause of death was supported by diagnostic data, Information was also secured on sudden and unexpected deaths and on the personce or absence of associated diseases, 3 tables. (AEd)

940. MULCARY R.

The wars of prospective and retrospective population surveys in the study of coronary heart disease-with 6 note on Ireland's suitability for upidemiological studies. Irish J Med Sci 6:299-309, Jul 67.

Epidemiological studies show that Ireland has one of the highest meadences of coronary heart disease, ranking with the U.S. and U.K. Problums in the electifation of the courses of coronary heart disease are discussed. Rensons for neglect of retrospective studies are discussed and suggestions for work are made Revults from a comprebetiver study are reported and company with reside from prospective studies. A special note to made of inhal's matability for epidemiological studies used in its a small and study accessible populations, threatily and culturally homogeneous; with a remonably studiestory minimum standard of obtainine, few industrial resers, well established medical schools, shigh studiesd or incidence, and a number of large families, 12 refercences (AEG).

#### MYERS, R. J. Limitations in the use of OASDI records for health studies. Autor J. Public Health 55:1787-91, Nov 65.

The Gib-Age, Surveyon, and Dealedly Insurence system (CASD) missaline current complexions: records for about 1905 of the workers in the country, as well is about 1905 of the workers in the country, as well is second; within these records proude does for reliable studies of mortality and loop-term disability, three use closes of difficulties in using face. In came types of content of the country of the countr

- CSBORNE, R. H., DE GEORGE, F. V. Neoplastic diseases in twins: Estdeneo for pre- or perinatal factors conditioning cancer userptibility. Cancer 17:1149-54, Sep 64.
- PERRIN, E. B., SHEPS, M. C. A mathematical model for human fertility patterns. Arch hardray Health 10:694-8, May 65.

The construction of a mathematical model which will adequately describe the reproductive partiern of the human female, whether considered individually or in aggrepate. It is possible with the program that have been developed to simulate and record the passage of a woman through 25 years of reproductive hie in two-tenthis of a second. 3 pables, 3 references (AEG)

420 RFID, D. D., ROSE, G. A. Assessing the comparability of mortelity statistics. Brit Med J 5422: 1437-9, 5 Dec 64.

## RICE, D.P. Estimating the cost of illness. Amer J. Public Health 57:424-40. Mar 67.

Amor J Prince Harton 27:44-470, Mar 97.
Cultilines a methodological Immercork for cabolising disperses cost of littens, drubably, and sizah, Econodic glosyer cost of littens, drubably, and sizah, Econodic and the second of littens, drubably, and littens, drubably, and littens, and littens, and littens, and littens, and littens and littens of littens of littens of littens (littens for this new follows for littens for the most of littens for the most littens for the most littens for the most littens for little littens for little litt

944 RIDLEY, J. C., SHEPS, M. C., LINGNER, J. W. The effects of charging mortality on natulity. Some estimates from a simulation model. *Milland Meta Fanal Quart* 45:77-97, Jan 67.

A comprise model "FRFSH" which wantities the reordering blood of a bryolicetic clotted of wanter, was applied to study the effects of improved survoid or follows: In the required experiences, regime metality lettle, for the women, their further, and their instances, lettle from the women, their further, and their instances, the provided of the second of the second of the second provided another of observing sour directly the secular provided another of observing sour directly the secular following the second of the contract of the second of

## SCHOENFELD, R. L. The digital computer and public health. Arch Euritra Health (Chango) 14:327-32. Feb 67.

Use of digital computers enables the processing of results of screening tests, for a number of discuses, so take place simultaneously with the test procedures carried out at different housitals. The rapidity of processing makes possible the availability of the results before national leaves the clinic. Fach nationt's history, including all test and questionsure results, is compiled. The main numous of scientific bowever is the detection of disease conditions. The information may be processed in a variety of ways to permit statistical studies and summary reports for use of the participatine hospital. One can envision a computer coerated community, or regional, public health facility with up to the menute records of its medical care, largestal admissions, and discare profiles for comparison with other regions and for improvement to its net formance. B references. (AEd)

# SHEPS, M. C., PERRIN, E. B. Perther results from a human fertility model with a variety of pregnancy outcomes. Hum Biol 38:180-83, Sep 66.

A simplified model is presented for the sequence of centra occurring deeper approximation. Like the mose general system (Turrin and States), 1964) of which this is, a gooded one, the model provides for fivel westger and for reconsequible protein, more than the states are provided to the state of the states of the states of the generality, introduced the states of the states of the generality framework is the state of the states of the provide for complete states for internal between both and form markets until 1-18 birth and its early extended to provide for complete states for internal between both and form markets and the states of the population, and the states of the states o

## SIRKEN, M. G. Comparison of two methods of constructing steridged life subles by reference to a "standard" table. Vited and Health Statistics. Somes 2, No. 4, Revised Mar.

After small bases were detected in the values of 1950 U.S. shridged life tables, studies led to the development of a revised method of construction. A text of the secures: Is presented involving a companison of the 1945-3 abridged life tables constructed by the revisation with the complete decentral 1949-51 life tables which were constructed by elaborate and laboritous methods. There was close agreement between the values of the expectation of his based on the two methods. Life tables. (AEd)

#### 948. SODA.T.

A nationwide simple morbidity survey in Japan. WHO Public Health Pap 27:181-96, 65.

pg(O' state: return ray 2::10-39, 02). Beganning in 15:23, "Black Survey for Health and Wei-fore" its been conducted in Japan coal; flexil yout to: (1) oleans amain last beep view for Surpey for the sample for the sa

#### 949. SUCHMAN, E. A. Social stress and c

Social trivial in candiovascular disease. Pactors stroiting social and demographe characteristics. Appraisal and supplications for linearized development. Militaria Pand Queet 45.5 suppl. 109-13, Apr 67. A look at the existing unorthizy and mortality institute for coronary locat divense and a compension of the rates for different demographic, recopus paperss to be a surplix

risk on the surface, but the impression galled it one of overwhelening, conductor, Suggistrates for a working hypothesis for research on this subject and a sequence is degrammed, keeping in midd the situation-less of defining any tree wordshits in linegardient on dependent. A could be introduced as intervening windables into the reported correlations between until factors as xxx, age, clearation, race, ruthorality, relogate, occupation, income, and easthousecular distance.

## 950. SULLIVAN, D. F. Concentral problems in developing as index of health.

Confequent greeness in investigation and so from the Confequent greeness in the Confequency of instantable components. Servate concepts of a popular confequency of the Confequency of instantable components of the Confequency of instantable components. Servate concepts of a popular confequency of instantable components of inst

problems of rehability and validity, and use of such a measure in construction of an index are discussed. (AA)

Apropos of the classification and nomenclature of diseases and causes of death. Sovet Zebrauckiv 24:28-33, 65. (RUS) No English summusy.

951. TARASOV, K. E., SOBOLEVSKII, G. N.

 U.S. NATIONAL COMMITTEE ON VITAL AND HEALTH STATISTICS. Fortility measurement. Visal and Health Statistics. Sones 4, No. 1, Reprinted

Measuring fertility in the U.S. is discussed as terms of its adequacy in perturying current tiends, Data published include barth rates, age-sex-adjusted birth intos, gross reproduction rates, and general fertility rates. Plans for development of new measures include additional cohort fertility rates, followback studies, use of proposed new items of information on the revised U.S. Standard Certificate of Live Birth, and data from the Current Population Survey on women by number of children ever born, by number of children present in the home, and child spacing. Interview surveys measure aspects of feetility not available from birth registration or the deconnial census. Birth expectations data are an important adjunct to the analysis of current trends. The introduction of social and economic as well as demographic variables is necessary for improvement of population projection methodology, Text tables, (AFd)

953. VACEK, M. Information on morbidity from morbid practice.

IWIO Fushic Health Pap 27:69-76, 65.

Buropens comulies all have leadth statistics but they
reflect only a part of the over-all morabulity of the
population Scope, purpose, and value of statistics from
seedical record surveys are discussed. Some limitation with
succh arreys are lifetimented.

954. VACEK, M. On the concept of positive health, Cesk Zeher 14: 1904, Apr 66.

The bath postables of a covered of positive bould, applicable in statistical processing are federal (1) Indicates of horseast resistance against certain engagement of the control of the

#### 955 ANONYMOUS,

Married population may reach 100 million in 1970.

Status Bull Marron Lite Junu Co 46 6-7, Sep 65.

The married population has meetested greatly, exclusing 89% million, a gas of 4 million sure 1500, Increases will anadoushculy contiase, due to the numbers coming of age in the neaf times, in 15964, 687 of the population of a size of the continuous control of the population of the population of the size of the population of the size of the

#### 956. ANONYMOUS.

Population and femilies. Status field Meson Life June Co 48.9-11. May 67.

The wast exposity of our population box in families, 25% were living in families with hisband and wife protent and 10% were normbers of other types of families. Data by family status, age, incomes, and geographic distribution were given. Among those not into in families, 15% are 65 years of age or ore in 1956 11% of all families that seconds wisher \$3,000 and a filter proportion received \$1,000 or more. 2 hisber.

#### 957. ANONYMOUS.

Population mobility continues high, Statist Bull Metrop Life Insur Co 47:1-3, Apr 66

1/5 of the U.S., population changed residence early year since 1948. From 1946 to 1945, Si million percons ages I or older moved within the country, and in addicional I author acute into the country term alwesto. Mobility artics for various segments of the population, 1964-1965, are thosen. With obstacing up, mobility proper-why lessens. A greater propertion of nonunites than whites change residence. Fermiles are only algular to suitable those change residence. Fermiles are only out the control of the complexity of as the engology to present. I table. Computipoyal as the engology to present. I table. Computing the complexity of the complexity of the control of the complexity of the complexity of the complexity of the control of the complexity of the complexity of the complexity of the control of the control of the control of the complexity of the control of the contro

## 958. ANONYMOUS.

The American family.

Statist Bull Menon Life Jugar Co 46.1-3. Dec 65.

The sambler of finalities in the U.S. has increased alone Wall by about 12 million (1956), and it expected to increase to 62 million by 1980. The upwing is due to increase to 62 million by 1980. The upwing is due to more standly fromtaclose, as postwar babase reach the age of searrings. The number of nanited coupler will increase by 30%, 1965-1980. If the faulty heads are under 35 years of age. Another large proportion are 65 or older. About 1 of 10 farilloth bars a votumn as based of leagueshold, partly because werene outflow thich hasbands, 1 table. Lebart. (20)

## 959. ANONYMOUS.

The population of elders.

Statist Bull Metrop Life Innus Co 46:1-3, Nov 65.

The U.S. Bureau of the Commus reports 18.2 million persons at uses 65 and over in 1965-e gain of 1.5

million since 1960. The older population has received as the 5th 95 of the total Theore are now 129 femiles for 100 miles at 1958 55 and over Two decades base, the actio may be 143 to 100. Mantal status, limite arrangements, and ligher force participation of the population of elders is discussed, it table. (Ed)

## 960 AHMED, P. 1. Family bospital and surgeal insurance coverage, U.S.,

luly 1962-lune 1963.

Tited and Health Statestics Stepes 10, No. 42, Nov 67.

Statistics from the Health Interview Survey on the extent of hospital and surgical insurance coverage in the population by son and type of furthy, family increase, education of fixed of furthy, geographic region, selfdence, solor, follow foeet self-ineation states, and hos-

putal expense. 10 tables. (AEd)

961. ALDERMAN, A. J.
Prescribed and comprescribed medicance Types and

soo of modelmer, U.S., high 1964-lance 1965. Videl and Herold Societies, Sense 19, 0, 19, Qu. 1-0. Starking from the Herich Internets, Sorrey on the Starking from the Herich Internets, Sorrey on the George Control of the Societies, and evening the George Control of the Societies, and evening the Control of the Societies, and the Societies, and evening control of the Societies and the Societies, and evening prescription was tilled or refilled for an ambificult after prescription was filled or refilled for an ambificult after a special process. As a special process of prescription and the societies of grant and the population and the shartheston of course personnel of the proposition and the shartheston of course personnel medicines by that or process of compressioned medicines by that or process are a process of the societies of the control of the societies process of the process and the societies of the control of the societies process of the process and the societies and the soci

#### 962. ALDERMAN, A. J.

Volume of doesds west, U.S., July 1983-line: 1964. Part and Heldis Mentines. Serve 11, No. 23, Oct 65 Studiesis from the Hould inherity Survey on the value me of selectal visite mode by the evolute, nonautiture of the servey of the servey of the value for the servey of the servey of the value of the servey of the servey of the value per poons were under, surpless with servey of the value per poons were under, surpless with servey of the servey of the value per poons were under, surpless with servey of the servey of the value per poons were under, surpless with servey that the servey of the value per poons were under, surpless with statistic for the certice population, fillings and counters were the type of service could chopacity liechied as detuil wasts. However, for specific age peops, the return to which works sudded under new members of the servey of the service peops, the return to which works sudded under new members and the server of the server peops.

963. BEADENKOPF, W. G., POLAN, A. R., MARKS, R. U Some demographic characteristics of an untopsted pop-

J Chrome Dis 18:333-51, Age 65.
Investigation of differences between autopsood hospital
parliests, other hospital deaths, and deaths in the
general population. Analyzed were age, sex, naturity,
see, muital status, size of residence, place, religious
reference, and cause of death. 9 (ables.

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964 BROEL-PLATERIS, A. A.

Divorce statistics maly us. U.S., 1962 Vital and Health Statistics Sens, 21, No. 7, Dec 65.

Annual divorce and annulment statistics for the divorce registration area for 1962 and data on personal characteristics of extrems divorced in Hawaii, Josep. Tennessee, and Wisconsin in 1960 and 1961 are presented. In 1962; the divorce rate was 2.2 per 1.000 porestation and 8.0 for nervoes under are 18. Median duration of marriage was 7.3 years. In the 4 selected States, the divorce rate declined with increasing any of husband and wife. For white persons the rate was highest among ternagers, and it was highest for nonwhite persons in their 20's. The average number of children per divorce was 1 3. 20 tables (AEd)

965 BRYANT, E.E.

Institutions for the aged and thromeally dl., U.S., ApplJene 1963. Vital and Health Statistics, Sones 12, No. 1, Jul 65,

Institutions for the need in the U.S. are described by admission policies, type of nurse in charge of nursing case, whether or not round-the-clock marring service is provided, and the appoint charged for care of residents. based on a sunnic survey in 1963. About 46% of institotions were classified as nursing care homes and 29% as personal-care-with-nursing homes (seesonal care way the primary service but some nursing ease way provided). 407 were long-stay hosestals or hosestal units for core of the ared and chronically ill. 21% were homes which routinely provided personal care but not survine care. About 2/3 of the institutions admitted only bedfast extents. The vast majority of the nursing care homes and "hospitals" employed a nurse of some type to supervise nerving cure and provided nursing service 24 hours a day. Average charges mused from \$117 per month for personal care homes to \$206 per month for surang care homes. 13 tables. (AEd)

4 BUI-DANG-HA DOAN, I. Physician needs and resources for 1980. Concours Med 87:3170-9, 1 May 65.

To estimate the needs for doctors in Prance in 1980, the number of consultations and wasts that would probably be needed, and the annual number of consultations and visits that the doctor qualit to make mas computed. Available surveys in 1960 showed that the consultations and visits inade annually per doctor ranged between 3,997 and 4,569. It was estimated that these would be reduced by 10% per doctor in 1980. In 1970, the number of doctors practicing will be about 59,500, about 11,500 less than what is needed, 2 tables I figure 8 references (AEd)

7. CHULIS-G. S

Dental visits, time interval since last visit, U.S., July 1963-Juny 1966 Vital and Health Statistics Series 10, No. 29, Apr 66.

Time interval since list dental visit is presented by age, sex, color, numb activity status, marital status, education of the head of family, family meome, residence, and geographic region, 42% of the crothan, noninstitutional population, had seen a dontist in the year prior to interview, About 17% (mostly young persons) had sover mode a dental visit. A strong, durect relationship between the proportion of persons with recent dental visits and socioeconomic status was evident. Variation was noted with respect to recency of dental care between persons living in the various geographic regions and residence extensives. Data are from the Health Interview Survey 29 tables (AEd)

968 CLAGUE, A. I. AND VENTURA, S. T. Frends in illigationary, U.S., 1940-1965 Vital and Health Statistics, Screet 21, No. 15, Feb 68

Recent trends and differentials in illustrinacy based on information on birth certificates of 34. States and the District of Cohembas. The illegitancey rate, number of illegrimate births per 1,000 unmarried women 15-44 years of age, has increased from 7.1 in 1940 to 23.5 in 1965. Illegituracy rates have always been higher for norwhites than whites but the differential has been duclaring recently. Differentials in illegitimacy are found by use of mother, live birth order, place of resdence, and sociocconomic status. Illegitimate children suffer not only because of their legal status but also with respect to physical development at birth and subsequent health 26 tubles (AEd)

969. FRANCO, S.C.

Re-employment or retirement. Background and definitive statement of the problem of disability. Arch Euryon Hoelth 11:835-40, Dec 65

Statistics from the Consolidated Edwon Communy. New York, are cited to show the scope of the medical problem of disability faced by industry, Of 23,000 workers, 1,962 (9%) were efflicted by a duabline condition that received permanent physical restrictions. The soustic "restrictions" are listed by munber of each and by age groups. Cardiovascular diverses runk first with 55%, next me diseases of the central nervous system, 10%, and distancy of the skyletal system, 7%. Orthopedic cases account for a very small recentsec. I table. 9 references. (Ed)

970. GILLL, II. World population growth and some implications Brit Med J 5473 1302-4, 27 Nov 65.

The present world population of about 3.4 billion is increasing by 70 million a year. In the less developed countries of Africa, Asin, and Latin America, the growth rate is even higher. The recent rapid increase is due to a speciacular decline in mortality because of health improvement, to effective disease prevention methods, and to the continuing high level of furtility especially in the lest developed countries. Problems are discussed including: increasing narscultural productivity, improving the dart, combatting elleteracy, coping with housing, public health, employment, medical enre, and rodneing fertility. (Ed)

971 HACKENBERG, R. A. An unthropological study of demographic transition. The Papage Information System Milhank Mem Fund Ouert 44,470-93, Oct 66.

> Description of a destographic information system to record the nottern of adoptation of an American Indian group to urban-industrial society. A continuous population register is regintained ancluding information on sec. sex. place of origin, marital status, progressive experience, education, and health status. Village surveys supply the initial registration, and automated linkuse with vital, modlest, and other records keen it cur

rent. The comprehensive health program at the Division of Indian Health provides the framework for operation of the register, much of the data for its maintenance and the numerator data for vital and braith statistics for which the register sumples denominators I table. I flettre. 75 references (I d)

972 HANNAFORD, M. N. Characteristics of patients of selected types of medical specialists and practitioners, U.S., July 1963-June

Vital and Health Stattetics, Senes 10, No. 28, May 66 The percent of persons who consulted wiccied types of-medical specialists and practitioners by age, sex, residence, geographic region, family income, usual activity status, color, and education of the head of lamily from the Health Interview Survey Annual number of wats per patient is shown A study to estimate the accuracy with which respondents recognized 10 specialty areas is summarized. A greater percent of persons in high income families or persons in metropolitin areas consulted these types of specialists and practitioners than did those in low moome families or those outside metropolitan areas, 30 tables,

973. HANNAFORD, M. M. Proposition of surgical bill sold by insurance: Surgeal patients discharged from short-stay hospitals, U.S., July 1963-June 1964.

Vital and Health Statistics, Sones 10, No. 31, Sep 66. Date from the Health Interview Survey on characteristies of surriculty treated nersons disclarated from short-stay hospitals during the year prior to date of interview, on the proportion of the surgical bull pool by insurance for persons who but operations performed as the hospital, and on type of surgical treatment rocewed. About 13.6 million operations were performed on 12.8 million persons discharged from shortstay bosoitals, 2/3 of these papels reported using insurance to pay for all or part of the survival treatment and 2 out of 5 reported that insurance covered 3/4 or more of the surgeon's fee. 11 tables. (AEd)

974. HOFFMANN, C. II.

Health mammec coverage, U.S., July 1962-June 1963, Vital and Health Statistics Series 10, No. 11, Aug 64. Statisties on the nonulation covered by health infurance according to selected demographic characteristics. Based on data collected in the Health Interview Survey, Health insurance coverage rassed; from 34% for family incomes of less than \$2,000 to 88% for family incomes of \$10,000 or more; from 74% of the whate population to 46% of the nonwhite population, from 37% of those in households in which the head of the family had less than 5 years education to 85% of those who had completed [3 or more years of school; from 78% for persons in the Northeast Region to 60% for the South Region, 16 tables, (AEd)

975. HOFFMAN, C. H. Health insurance, type of insuring organization and multiple coverage, U.S., July 1962-June 1963, Vital and Health Statistics. Sones 10, No. 16, Apr 65. Statistics on persons covered by Blue Cross-Blue Shield or other type of health insurance plan, including the CARRE OF MUNERAL HOMANA CANADA, NJ. NA. demographic characteristics. Based on data collected in the Health Interview Survey 31 tables (AA)

976. HOLLMAN, C. II

lamly. 20 table (AEd)

Volume of physician visits by place of visit and type of service, U.S., July 1963-June 1964. Fital and Health Statistics Somes 10, No. 18, Jun 65. Data from the Health Interstew Survey on volume of physician wats for the crulum, nonurstitutional population of the U.S., by type of service and place of visit as well as by a number of demonstraline characteristics An average of 4.5 physician work per person per year were made. The rate was lughest for persons under 5 years and those 65 years and over. Visits increased consistently as the family meene mercined, from 4.3 visits forong those with family income least them \$2,000 to 5.1 vests for those in families with income of \$10,000 or more. The physician visit rate siso varied directly with population denuty and with the agrount

of educational attainment of the head of the 977. KOVAR, N. G. Changes for care in institutions for the aged and chronscally #1, U.S., May-June 1964. Vital and Health Statistics, Stres 12, No. 9, Aug 67.

Data on charges for ease in residential institutions based on a survey. The average monthly charge was \$194 for females and \$171 for males. Average change increased with age and level of service provided by the institution. Charges for a given type of institution or level of service some expensive highest in the Northeast and the West, lower in the North Central Region, still lowest in the South, 47% Issued neight assistance is their primary somes of payment and their average monthly charge was \$179. Another 46% used their own meons as their primary source of payment, their aware monthly change was \$202, 23 tables. (AEd)

978. LAWRENCE, P. S., GLEESON, G. A., WHITE, E. L. Medical care, health states, and family income, U.S. Vital and Health Statistics, Spring 10, No. 9, May 64, The properties who have besuted or surgical insurance coverage ranged from 34% of those with less than \$2,000 income to almost 90% with meanes of \$7,000 or more. Where family income is over \$7,000, elderly persons, nonwhite persons, persons in large families and persons of made school education have an excess of 70% hospital sesumeor coverage, Lower income was associated with fewer hospital discharges but longer average teneths of stay, fewer physician and dental waits, lower menual licaith expenses, higher proportion limited in activity because of a chronic condition and huther rates of disability. Data were from the Health' Interview Survey. Text tables, (AEd)

979. LISCHNER, M. W. Prevalence of respiratory symptoms in an industrial population. Dis Chest 50 476-86, Nov 66.

For purposes of studying respiratory symptoms, 82% of an industrial population was divided into 3 groups administrative and executmental, factory, and elerical Chronic productive cough was present in 10%. No significant differences were found by ago or sex. Smoking labels of the 3 groups were small rand three was a statistically supficient relationship between requiredry symptoms, pulmonary ventilation, and expected stockage Preculser, rates of reprinterly symptoms were surfar among feerly emokers who had stopped and among nontuniteers, suggesting that expected smoking is a reversible furnish. The effects of social class or attemption optitions may give source rocks. (ABI)

## 980 LOGAN, W. P. D.

Mortudaty statistics from general practice in England and Wates, WHO Public Health Pap 27:158-62, 65.

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981. MCKEOWN, T. Medicine and world population. J Chronic Der 18: 1057-77. Nor 65

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#### 982 MERRILL, M. H. An expanding populace in a contracting world. JAMA 197:632-7, 22 Aug 66.

The positions possit that the south is expositional foreign terms from the lifether to being about recommend observations to milk officients being about recommend observations and indigest limits attended scientification control of the control of

### 33. NORTON, S M.

Internesal births in Baltimon: 1950-1964 Public Health Rep. 81:967-71, Nov 66.

An analysis of the birth certificates registered during 1950-1964 with the Bureau of Vital Records of the Baltimore City Health Department revealed a total of 684 resident interpretaj burtis. Tites burtis represent only a smill number when compared with the total number of resident buris intenge the 15-year period. However, beginning in 1560 u gradual apward tread has been observed in the number of children from of white-Negro, white-Pilipeno, and white-Oriental nations (Ad.)

## 984. ORTMEYER, C. E. Demographic characteristics of persons married be-

tween January 1935 and June 1958.
Vitel and Health Statistics, Series 21, No. 2, Apa 65,
Presents the principal demographic characteristics of
coupled mirrared during 1955-1958 in the U.S. Data are
for first marriages and remarriages by residence, age,

complex mirraed during 1955-1958 in the U.S. Data are for first mirriages and centralinges by residence, age, color, status of husband as bread of household, occupanoual status of husband, and comployment status of wife. Data are based on a special survey of respondences as sample households interviewed in 1958 Curraey Populations Survey. 30 Tables 2. Appendices

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Visit and Hoslin Statistics, Series 21, No. 10, Jun 67. A stanapy of complements of coverage for manuage data and national front in marriage into, and conjugation, 1986-86, among geloso, agoptaphic febrishins, and States. Tread ratus for 1940-62, amo illuceased in relation to population growth and changes in agreement particular to proposition growth and changes in agreement process of the comparison of the comparison of the confusion of the confusion of the comparison of th

#### OSBORNE, J. E. Characteristics of hospital auditation in Canada. Amer J Public Health 55:446-52, Mar 65.

As malphis of stillardies of bospitals in Cameda, with mediacists of 4 dales from the Camedan Convigues(\*\*). "Incept all shorts from the Camedan Convigues(\*\*). "Incept all shortships Statistics, 1961;" There measures of bospitals influsion are used -nature of influsions per floward population, we escape length of stay, and number of days of care per thousand population, its constituted that utilization of flowylited care a tiggle; in Camida than as the U.S. because care for the chronically it is included in the Camida than as the Cameda care for the chronically its included in the Camida than as the Cameda care for the chronically its included in the Camida than as the Cameda care for the Cameda c

#### 987. PLATERIS, A. A. Divorce statistics analysis, U.S., 1963.

Visit and Heath Statistics: Seeka 371, No. 13, Oct 47, The thrower fine for the U.S. is higher than for any other arisen dues report this information to the Statistic USA. Data from 22 Statis particle USA of the USA. Data from 22 Statis particle USA of the USA. Data from 22 Statis particle USA of the USA of USA of

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Distriction of electricity loogistics, summary of neatransparency (U.S.) 1963.

Find and Hoolth Stemiler. Sense 12, No. 2, Aug 67.

Utilization of short-tary loogistic based on information from the state of the state of the state of the state of the patients' daschaped from short-tary loogists. The estimated ratio of loogistal strikenion were 153 dischapes and L202 days of one per 1966 on were 184, and house the state of the

patient, geographic regions, and by whether the patient was discharged alive. Bed occupancy nate in short-day hospitals was about 78%. 5 tables. (AEd) 989. STINE, O. C., RIDER, R. V., SWEENEY, E. School leaving due to programery in an ariban adolescing opinations. Autor 2 hashe Health 54 t. S., Jan 64.

In recent expendence in Manyland, pragmaticy is the most frequent single physical networcasing an adolescent to leave shade sides in gainstains. More than twice as many deflerence framiles the school with pragmatic and the state of the school with the s

 STORCK, J.
 History of the U.S. National Committee up Vital and Houlth Statistics, 1949-1964.
 Vital and Health Statestics, Smics 4, No. 5, Jun 66.

Background materials for the 25th multex-ray meeting of the U.S. Method Committee on Visit and Blackh Statutis, 1954. The sin is to summare the scheduler of the Contention, enclosing its abnormatives in enough cital to convey adequately the conselections that were weighted in seating substantes devices. Topics covered seeinde visit, morbidity, hospitals, mittry bottly, and Festiliy and population stratutes, and classification dentits and classification dentits of the ECD revision. Text Tables. (AED)

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SYDRCK, J.

Report of the inferenth universary conference of the
U.S. National Committee on Vital and Health Stalistics.

Field and Health Statistics, Sereed 4, No. 6, Lin 66, Suggestation for bridy by declanagelyne and health satisfus to be included not be a second to the best of the contraction of the second to the second to the contraction of the second to the second to the second should be just to enthody for oblining asserts in the second to the second to the second to the second language and the second to the second to the second language and the second to the second to the second second to the se 992 TAUBF, C. A. Imployees in mirring and personal care homes: number, work expensence, spenial training, and wages, May-June 1964.
Final and Health Statemers, Series 12, No. 6, Jun 67.

Wate and rooms historiest, seens 12, 90 e. 3, into 15. Impropers of managing and personal cent homes are described in times of that referent work experience, and the referent work experience, because of 176,000 employers chronical as assess, munch andre, and other medical controlled as assess, munch andre, and other medical controlled as assess, munch andre, and other professionals had the tast and 1 year of table appeared for the shad taken a formal courter under coffigue sponsors from the control and the complete of the shad taken a formal courter under coffigue sponsors of the control and the complete of the control and the con

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 Employees in nursing and personal care fromes, U.S., May-June 1964
 Fital and Health Statistics, Series 12, No. 5, Sep. 66.

Employees in mening and personal care homes are databased in time of the lang and me, job categories, characteristic of reading and the control of the contr

 U.S. NATIONAL COMMITTEE ON VITAL AND HEALTH STATISTICS. National vital statistics needs.

Plust and Health Statistics. Stress 4, No. 2, Sep 65.
Analysis of the role of the automal wital statistics agracy, with recommendations exosceraing the procurement and production of regular annual data, the need for special studies, provision of technical sorvives to the States, and other policy questions. Text stables. (AA)

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Data on per capita expenses for the civelian, nonmotituttonal population based on data collected by solfcounteration, employing a mod-in-ougstionnum left with the respondent for the Health Interview Survey conducted during July-Dec. 1962. Per capita personal health expenses are shown by type of expendance, by age, sex, color, sue of family, family income, and education of head of family. The average expense per person was estimated as \$129 for total expenses-\$30 for hospitalization, \$43 for doctor eare, \$19 for dental care, \$26 for medicines, and \$11 for special and other health expenses. These expenses warsed considerably by personal, social, and health characteristics. 18 tables.

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includes hospital, doctor or dental care, medicanspecial and other builth expenses. Data were coby self-enumeration employme males question left with the respondents of the Health Interview vey July-Dec. 1962. 5 tables. (AEd)

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Vital and Health Statistics Senes 10, No. 22, Sci Statistics on the proportions of persons in the cinoninstitutional population with no personal I expense and those with expenditures during the pelor to interview, by interval of expense and to expense based on data collected by self-enument A mathin questionnaire was left with the reservo for the Health Interview Survey. The proportion females with expense exceeds that of males in category of health expense. As ago increased, a gr percentage of persons lind expense, and there is shift toward large amounts per year. As family in increased or educational level of the head of the fi rose, the proportion of persons with no ext declined, and there was a shift toward higher exp tures. 20 tables. (AEd)

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Physician vests, asterval of visits and children's ro checkup, U.S., July 1963-June 1964 Vital and Health Statutics Series 10, No. 19, Just

Data from the Health Interview Survey for the civnoninstitutional population of the U.S. by time val since last physician visit and sex, ago, ruside geographic region, color, family income, educatio the head of family, usual activity status, and rea atatus. 66% of the population saw or talked to p p) clan within 12 months of the beterview, About reported never laving seen or talked to a play sic 36% of the children under 17 years of are had a tine physical examination during the year prior interview, 30 tables, (AEd)

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